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Electronics Design Consulting and Subcontracting Services IN ONTARIO

SECOND EDITION



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



DIRECTORY OF

Electronics

Design

Consulting

and

Subcontracting

Services

INDUSTRY, SCIENCE AND
TECHNOLOGY CANADA
LIBRARY
IN ONTARIO

SECOND EDITION

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TECHNOLOGIE CANADA



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Technology Canada

Industrie, Sciences et
Technologie Canada



The Directory of Electronics Design, Consulting and Subcontracting Services in Ontario was published in March 1989 by the Electronics and Aerospace Division of Industry, Science and Technology Canada, 1 Front Street West, Toronto M5J 1A4 - (416) 973-5158 (copyright 1989)

DIRECTORY OF

Electronics Design Consulting and Subcontracting Services

IN ONTARIO

SECOND EDITION - SPRING 1989

This is the second edition of the directory, and was compiled by the Ontario office of the Department of Industry, Science and Technology Canada (ISTC). It is a listing of Ontario companies that are providing the technology-based industries with consulting and other services: design, assembly, custom-made fabricated parts, testing, and market consulting.

The first edition was warmly received by firms of all sizes that sought highly-technical expertise from outside their own ranks. There are two sections: a cross-index which lists the services by category, followed by the companies' names; and a detailed listing of the suppliers (one page each, in alphabetical order).

*Electronics and Aerospace Division (Ontario Office)
Industry, Science and Technology Canada*



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DIRECTORY OF

**Electronics
Design
Consulting
and
Subcontracting
Services**

IN ONTARIO

cross-index

by services
provided

ENGINEERING DESIGN

ELECTRONIC CIRCUIT DESIGN

AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Absopulse Electronics Ltd.
Advance Electronic Sub-Systems Inc.
Andyne Computing Limited
Antel Optronics Inc.
Aprel Inc.
Aqcon Inc.
Arjay Engineering Ltd.
BTL Division Jannock Ltd.
Bestek Micro Devices & Systems Inc.
Blo-Tech Co.
Blenkhorn and Sawle Ltd.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Capulum Cable Technologies Ltd.
Car-San Manufacturing Ltd.
Certelem Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Comtest Instruments Ltd.
Cowley Consultants Limited
Crest Circuit Inc.
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Datasynt Inc.
Detronics Ltd.
Digitrol Computers Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
G & J Electronics Inc.
Genesis Microchip Inc.
Gennum Corporation
Gidden Morton Associates
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.
Hamilton Avnet Electronics
Hamilton Engraving Co. Ltd.
Harmic Design Div of Three Port Mfg Ltd.
Imago Manufacturing Limited
Indal Technologies Inc.
International Epitex Inc.
JPS Microsystems Inc.

ELECTRONIC CIRCUIT DESIGN

K & J Subassembly Co. Ltd.
Kan Act Ltd.
Knopafex Ltd.
Lafontaine Consulting Services
Lazer-Tech Limited
Leigh Instruments Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Loksek Inc.
Marstech Ltd.
Microart Services Inc.
Microset
Motorola Ltd. Semiconductor Division
National Semiconductor Canada Ltd.
OCM Technology Inc.
Optech Systems Corp.
Orion Technical Consulting Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
Polytek Electronics
Pri Con Corporation
QSDM Inc.
Quality Circuits Manufacturing Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Renco Design Ltd.
Rodlin Instruments Inc.
Sander Geophysics Limited
Sicotel
Silcom Manufacturing Technology Inc.
Spectrum Electronics
Surface Mount Technology Centre
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tectrol Inc.
Tektron Equipment Corporation
Telcom Research
Topping Electronics Ltd.
Wheatfield Instrument Corp. Ltd.
Zavitz Technology Inc.

ELECTRICAL CIRCUIT DESIGN

ASW Computer Systems Ltd.
Aprel Inc.
Aqcon Inc.
Arjay Engineering Ltd.
Bestek Micro Devices & Systems Inc.

ELECTRICAL CIRCUIT DESIGN

Bio-Tech Co.
Blenkhorn and Sawle Ltd.
Brosz and Associates
C-Tech Ltd.
Car-San Manufacturing Ltd.
Certelem Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Cowley Consultants Limited
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Detronics Ltd.
Diemaster Tool Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
FMS Engineering
Gidden Morton Associates
Guildline Instruments Ltd.
Haipen Engineering Inc.
Indal Technologies Inc.
Kan Act Ltd.
Knopafex Ltd.
Lafontaine Consulting Services
Leigh Instruments Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Microart Services Inc.
Microset
OCM Technology Inc.
Ortech Corporation
Polytek Electronics
Pri Con Corporation
Quality Circuits Manufacturing Ltd.
Rantech Electronics Ltd.
Renco Design Ltd.
Silcom Manufacturing Technology Inc.
Surface Mount Technology Centre
Tektron Equipment Corporation
Telcom Research
Toppling Electronics Ltd.
Zavitz Technology Inc.

THERMAL DESIGN

Acrolab Instruments Ltd.
C-Tech Ltd.
Cowley Consultants Limited
Detronics Ltd.
Electralogics Incorporated
FMS Engineering
Gennum Corporation
Knopafex Ltd.
Lafontaine Consulting Services
National Engineering & Science Assoc.'s
Ortech Corporation
P-Can Machining Inc.
Pachena Scientific & Ind Electronics Inc
Quality Circuits Manufacturing Ltd.
Silcom Manufacturing Technology Inc.
T.J. Mousseau Tech. Serv. & Elect. Lab.
Zavitz Technology Inc.

POWER SUPPLY DESIGN

Absopulse Electronics Ltd.
Advance Electronic Sub-Systems Inc.
Antel Optronics Inc.
Aprel Inc.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
C-Tech Ltd.
Crest Circuit Inc.
D.G.A. Electronics Ltd.
Detronics Ltd.
Digitrol Computers Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Gidden Morton Associates
Harmic Design Div of Three Port Mfg Ltd.
Knopafex Ltd.
Lafontaine Consulting Services
Marstech Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
Polytek Electronics
QSDM Inc.
Quality Circuits Manufacturing Ltd.
RMF and Associates Ltd.
Renco Design Ltd.
Ritz Electronics Limited
Silcom Manufacturing Technology Inc.

POWER SUPPLY DESIGN

Surface Mount Technology Centre
Tectrol Inc.
Tektron Equipment Corporation
Topping Electronics Ltd.
Zavitz Technology Inc.

CIRCUIT SIMULATIONS

Antel Optronics Inc.
Antrim Tool & Machine Manufacturing Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Capulum Cable Technologies Ltd.
Certelec Laboratories Inc.
Computech Micro Design
Crossbow Electronics Inc.
Detronics Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
G & J Electronics Inc.
Genesis Microchip Inc.
Gennum Corporation
Gidden Morton Associates
Gulldline Instruments Ltd.
H. T. Watt & Associates Ltd.
Hamilton Avnet Electronics
International Epltek Inc.
JPS Microsystems Inc.
Knopafex Ltd.
LSI Logic Corporation of Canada Inc.
Marstech Ltd.
Microset
Motorola Ltd. Semiconductor Division
National Semiconductor Canada Ltd.
Orion Technical Consulting Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
QSDM Inc.
Quality Circuits Manufacturing Ltd.
RMF and Associates Ltd.
Silcom Manufacturing Technology Inc.
Tektron Equipment Corporation
Zavitz Technology Inc.

MECHANICAL DESIGN

ADH Custom Metal Fabricators Inc.
AME Microsystems Engineering Ltd.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc
Anderson Metal Industries Inc.
Aqcon Inc.
Arjay Engineering Ltd.
Arnott Design Group Inc.
Ashworth Fallows Inc.
B.C. Instruments Inc.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Burndy Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Canadian Industrial Innovation Centre
Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Cowley Consultants Limited
Crossbow Electronics Inc.
Custom Components Manufacturing Co.
Custom Plastics International Ltd.
D.G.A. Electronics Ltd.
Dahlstrom of Canada Limited
Detronics Ltd.
Diemaster Tool Inc.
Donmor Precision Limited
Dowty Canada Electronics Limited
Electralogics Incorporated
Electronic Metaform Industries Limited
F & H Plastics Ltd.
FMS Engineering
Gulldline Instruments Ltd.
Hom Plastics Ltd.
Indal Technologies Inc.
International Epltek Inc.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Knopafex Ltd.
Kuypers Adamson Norton Ltd.
Leigh Instruments Ltd.
Loksek Inc.
MNG Plastics Ltd.
MPC Circuits Inc.
Main Prototypes Ltd.
Microart Services Inc.
Microtel Ltd.
Moldcraft Plastics Ltd.
Morton Knecht & Associates

MECHANICAL DESIGN

Multitest Electronics
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Ortech Corporation
P-Can Machining Inc.
Pachena Scientific & Ind Electronics Inc
Patrick Plastics Inc.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Polytek Electronics
Pyramid Engineering and Mgt. Consultants
QSDM Inc.
Quality Circuits Manufacturing Ltd.
Quest-Tech Precision Inc.
R. CAD Systems
Renco Design Ltd.
Ritz Electronics Limited
Sander Geophysics Limited
Scott Gibson Product Design Inc.
Sicotel
Silcom Manufacturing Technology Inc.
Simpson Engineering
Surface Mount Technology Centre
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tectrol Inc.
Tektron Equipment Corporation
Topping Electronics Ltd.
Unified Engineering & Contracting Inc.
Zavitz Technology Inc.

MECHANICAL ANALYSIS

ADH Custom Metal Fabricators Inc.
Anderson Metal Industries Inc.
Ashworth Fallows Inc.
C-Tech Ltd.
Canadian Industrial Innovation Centre
Certelec Laboratories Inc.
Diemaster Tool Inc.
F & H Plastics Ltd.
Indal Technologies Inc.
Moldcraft Plastics Ltd.
Multitest Electronics
National Engineering & Science Assoc.'s
Nyab Vicom, A Division of General Signal
Ortech Corporation
P-Can Machining Inc.

MECHANICAL ANALYSIS

Pachena Scientific & Ind Electronics Inc
Price & Knott Mfg. Co. Limited
Pyramid Engineering and Mgt. Consultants
Quality Circuits Manufacturing Ltd.
R. CAD Systems
Renco Design Ltd.
Simpson Engineering
Zavitz Technology Inc.

USE OF CAD IN ENGINEERING DESIGN

ADH Custom Metal Fabricators Inc.
AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Absopulse Electronics Ltd.
Accuplus Custom Metal Fabricators Ltd.
Anderson Metal Industries Inc.
Andyne Computing Limited
Antel Optronics Inc.
Aqcon Inc.
Arnott Design Group Inc.
Ashworth Fallows Inc.
Bio-Tech Co.
Blenkhorn and Sawle Ltd.
Bridge Integrated Technologies inc.
Brosz and Associates
Burndy inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Car-San Manufacturing Ltd.
Certelec Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Comtest Instruments Ltd.
Cowley Consultants Limited
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Diemaster Tool Inc.
Digitrol Computers Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
FMS Engineering
G & J Electronics Inc.
Genesis Microchip Inc.
Gennum Corporation

USE OF CAD IN ENGINEERING DESIGN

Gidden Morton Associates
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.
Hamilton Avnet Electronics
Harmic Design Div of Three Port Mfg Ltd.
Horn Plastics Ltd.
Indal Technologies Inc.
International Epitex Inc.
JPS Microsystems Inc.
K & J Subassembly Co. Ltd.
Kan Act Ltd.
Knopafex Ltd.
Lafontaine Consulting Services
Lazer-Tech Limited
Leigh Instruments Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Loksek Inc.
Microart Services Inc.
Microset
Microtel Ltd.
Motorola Ltd. Semiconductor Division
National Engineering & Science Assoc.'s
National Semiconductor Canada Ltd.
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Optech Systems Corp.
Orion Technical Consulting Ltd.
Ortech Corporation
P-Can Machining Inc.
Pachena Scientific & Ind Electronics Inc
Polytek Electronics
Pri Con Corporation
Pyramid Engineering and Mgt. Consultants
QSDM Inc.
Quality Circuits Manufacturing Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reitek Inc.
Renco Design Ltd.
Scott Gibson Product Design Inc.
Sicotel
Silcom Manufacturing Technology Inc.
Simpson Engineering
Surface Mount Technology Centre
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tectrol Inc.
Tektron Equipment Corporation
Telcom Research

USE OF CAD IN ENGINEERING DESIGN

Topping Electronics Ltd.
Unified Engineering & Contracting Inc.

DESIGN - OTHER

ENCLOSURE DESIGN

ADH Custom Metal Fabricators Inc.
AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Absopulse Electronics Ltd.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc
Adamson Industrial Design Inc
Anderson Metal Industries Inc.
Antel Optronics Inc.
Aprel Inc.
Arjay Engineering Ltd.
Arnott Design Group Inc.
B & B Design Associates
B.C. instruments inc.
Bio-Tech Co.
Blenkhorn and Sawle Ltd.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
Cablecor Data Lines Limited
Canadian Plastics Inc.
Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Cercor Inc.
Computech Micro Design
Crossbow Electronics Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Dowty Canada Electronics Limited
Electralogics Incorporated
Euro Moulds Inc.
F & H Plastics Ltd.
Guildline Instruments Ltd.
Haipen Engineering Inc.
Harmic Design Div of Three Port Mfg Ltd.
Indal Technologies Inc.
K & J Subassembly Co. Ltd.
Knopafex Ltd.
Kuypers Adamson Norton Ltd.
Lightguide Systems Inc.

ENCLOSURE DESIGN

Loksek Inc.
MNG Plastics Ltd.
Microart Services Inc.
Microset
Microtel Ltd.
Moldcraft Plastics Ltd.
Morton Knecht & Associates
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
North Bay Plastic Molders Ltd.
Optech Systems Corp.
Ortech Corporation
Ove Design Toronto Ltd.
P-Can Machining Inc.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Polytek Electronics
Pyramid Engineering and Mgt. Consultants
QSDM Inc.
Quest-Tech Precision Inc.
Rantech Electronics Ltd.
Renco Design Ltd.
Ritz Electronics Limited
Sambrook & Hermetz Industrial Designers
Scott Gibson Product Design Inc.
Sicotel
Stegg Limited
Surface Mount Technology Centre
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tectrol Inc.
Topping Electronics Ltd.
Unified Engineering & Contracting Inc.
Wheatfield Instrument Corp. Ltd.

MANUFACTURABILITY ANALYSIS/PROD. METHODS

ADH Custom Metal Fabricators Inc.
Absopulse Electronics Ltd.
Accuplus Custom Metal Fabricators Ltd.
Anderson Metal Industries Inc.
Arjay Engineering Ltd.
Ashworth Fallows Inc.
B & B Design Associates
B.C. Instruments Inc.
Banke Electronics Limited
Bestek Micro Devices & Systems Inc.
Bridge Integrated Technologies Inc.
Bryan Walton and Associates Inc.

MANUFACTURABILITY ANALYSIS/PROD. METHODS

C-Tech Ltd.
Calmos Systems Inc.
Canadian Industrial Innovation Centre
Canadian Plastics Inc.
Compas/Computer Assembly Systems Ltd.
Component Mate
Crossbow Electronics Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Eidetic Systems Corporation
F & H Plastics Ltd.
FMS Engineering
Garrett Canada
Graphico Electronics Group
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.
Indal Technologies Inc.
International Eptek Inc.
K & J Subassembly Co. Ltd.
Leigh Instruments Ltd.
Loksek Inc.
Metaplast Circuits Limited
Moldcraft Plastics Ltd.
Morton Knecht & Associates
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
North Bay Plastic Molders Ltd.
Norwich Duff and Associates, Inc.
Nyab Vicom, A Division of General Signal
Ontario Centre for Advanced Mfg. (OCAM)
Ortech Corporation
Ove Design Toronto Ltd.
P-Can Machining Inc.
Pachena Scientific & Ind Electronics Inc
Patton Aircraft & Industries Limited
Patrick Plastics Inc.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Polytek Electronics
Price & Knott Mfg. Co. Limited
Pyramid Engineering and Mgt. Consultants
Reltek Inc.
Renco Design Ltd.
Sambrook & Hermetz Industrial Designers
Sigma Moulders
Silcom Manufacturing Technology Inc.
Simpson Engineering
Surface Assembly System Inc.
Tasque Technologies

MANUFACTURABILITY ANALYSIS/PROD. METHODS

Tectrol Inc.

TOOL MAKER

Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Anderson Metal Industries Inc.
Antrim Tool & Machine Manufacturing Inc.
Aqcon Inc.
Ashworth Fallows Inc.
B.C. Instruments Inc.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Canadian Plastics Inc.
Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Compas/Computer Assembly Systems Ltd.
Cowley Consultants Limited
Crest Circuit Inc.
Custom Plastics International Ltd.
Detronics Ltd.
Dlemaster Tool Inc.
Donmor Precision Limited
Euro Moulds Inc.
F & H Plastics Ltd.
Fishercast-Div. Fisher Gauge Ltd.
Garrett Canada
Graphico Electronics Group
Guildline Instruments Ltd.
Harmic Design Div of Three Port Mfg Ltd.
Horn Plastics Ltd.
Husky Injection Molding Systems Ltd.
International Eptek Inc.
KJ Marketing Services
Knoch Manufacturing Co. Ltd.
Knopafex Ltd.
Leigh Instruments Ltd.
MNG Plastics Ltd.
Main Prototypes Ltd.
Moldcraft Plastics Ltd.
Morton Knecht & Associates
Multitest Electronics
NVF Industries of Canada Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
North Bay Plastic Molders Ltd.
Nyab Vicom, A Division of General Signal
P-Can Machining Inc.

TOOL MAKER

Patrick Plastics Inc.
Payne Metal Enterprises Ltd.
Prescott Module Co. Ltd.
Pyramid Engineering and Mgt. Consultants
QSDM Inc.
R. CAD Systems
Renco Design Ltd.
Sigma Moulders
Silcom Manufacturing Technology Inc.
Simpson Engineering
Tasque Technologies
Unified Engineering & Contracting Inc.
Williams Machines (Div. Havlik Tech.)

PACKAGING DESIGN

ADH Custom Metal Fabricators Inc.
Absopulse Electronics Ltd.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Adamson Industrial Design Inc.
Arjay Engineering Ltd.
Arnott Design Group Inc.
B & B Design Associates
BTL Division Jannock Ltd.
Burdy Inc.
CAD/CAM Graphics (1984) Limited
Cablecor Data Lines Limited
Canadian Plastics Inc.
Cash Mould & Castings Limited
Crossbow Electronics Inc.
Custom Components Manufacturing Co.
Detronics Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
F & H Plastics Ltd.
FMS Engineering
Garrett Canada
Gennum Corporation
Guildline Instruments Ltd.
Harmic Design Div of Three Port Mfg Ltd.
International Eptek Inc.
K & J Subassembly Co. Ltd.
Knopafex Ltd.
MNG Plastics Ltd.
Main Prototypes Ltd.
Microtel Ltd.
Moldcraft Plastics Ltd.

PACKAGING DESIGN

Morton Knecht & Associates
NVF Industries of Canada Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
North Bay Plastic Molders Ltd.
Ortech Corporation
Ove Design Toronto Ltd.
P-Can Machining Inc.
Pachena Scientific & Ind Electronics Inc
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Prescott Module Co. Ltd.
Pyramid Engineering and Mgt. Consultants
Renco Design Ltd.
Rodlin Instruments Inc.
Scott Gibson Product Design Inc.
Silcom Manufacturing Technology Inc.
Surface Mount Technology Centre
T.J. Mousseau Tech. Serv. & Elect. Lab.
Topping Electronics Ltd.

INDUSTRIAL DESIGN

Adamson Industrial Design inc
Arnott Design Group Inc.
B & B Design Associates
Gidman Design Associates Ltd.
Keith Muller Limited
Kuypers Adamson Norton Ltd.
Ove Design Toronto Ltd.
Percept Industrial Design Inc.
Renco Design Ltd.
Sambrook & Hermetz Industrial Designers
Scott Gibson Product Design Inc.
Smith Boake Designwerke Inc.
Studio Innova Inc.

SOFTWARE DESIGN

OPERATING SYSTEMS

ASW Computer Systems Ltd.
Andyne Computing Limited
Arnott Design Group Inc.
Banke Electronics Limited
Bestek Micro Devices & Systems Inc.

OPERATING SYSTEMS

Bridge Integrated Technologies Inc.
C-Tech Ltd.
Cameron Bates Microcomputer Software
Compas/Computer Assembly Systems Ltd.
Crossbow Electronics Inc.
Datasyrn Inc.
Detronics Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Gidden Morton Associates
Goddu Systems Corp.
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.
Halpen Engineering Inc.
JPS Microsystems Inc.
KJ Marketing Services
Knopafex Ltd.
Lancom Technologies
Leigh Instruments Ltd.
Linnell & Associates Ltd.
Microset
OCM Technology Inc.
Optimage
Orion Technical Consulting Ltd.
P-Can Machining Inc.
Prior Data Sciences Ltd.
Rantech Electronics Ltd.
Sicotel
Topping Electronics Ltd.

REAL TIME APPLICATIONS

AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Advance Electronic Sub-Systems Inc.
Andyne Computing Limited
Arnott Design Group Inc.
Barros & Associates Ltd.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
Buckley Fraser Williams inc.
C-Tech Ltd.
Cameron Bates Microcomputer Software
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Detronics Ltd.

REAL TIME APPLICATIONS

Digitrol Computers Inc.
Dowty Canada Electronics Limited
Electralogics Incorporated
Gidden Morton Associates
Goddu Systems Corp.
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.
Imago Manufacturing Limited
Indal Technologies Inc.
JPS Microsystems Inc.
Kan Act Ltd.
Knopafex Ltd.
L & L Computer Systems Inc.
Leigh Instruments Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Microset
Norwich Duff and Associates, Inc.
OCM Technology Inc.
Optech Systems Corp.
Orion Technical Consulting Ltd.
P-Can Machining Inc.
Prior Data Sciences Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Sander Geophysics Limited
Scotel
Tektron Equipment Corporation
Telcom Research
Topping Electronics Ltd.
Videtics Ltd.
Wheatfield Instrument Corp. Ltd.

SIMULATION

ASW Computer Systems Ltd.
Andyne Computing Limited
Antel Optronics Inc.
Arnott Design Group Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Computech Micro Design
Crossbow Electronics Inc.
Detronics Ltd.
Dowty Canada Electronics Limited

SIMULATION

Gidden Morton Associates
Hamilton Avnet Electronics
Imago Manufacturing Limited
International Epitek Inc.
JPS Microsystems Inc.
Knopafex Ltd.
LSI Logic Corporation of Canada Inc.
Leigh Instruments Ltd.
Microset
Multitest Electronics
Norwich Duff and Associates, Inc.
Orion Technical Consulting Ltd.
Ortech Corporation
Prior Data Sciences Ltd.
Priority 01 Computer Education Services
Sander Geophysics Limited
Scotel
Wheatfield Instrument Corp. Ltd.

COMMUNICATIONS

ASW Computer Systems Ltd.
Andyne Computing Limited
Arnott Design Group Inc.
Banke Electronics Limited
Barros & Associates Ltd.
Bestek Micro Devices & Systems Inc.
Bridge Integrated Technologies Inc.
Buckley Fraser Williams Inc.
Cameron Bates Microcomputer Software
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Datasym Inc.
Dowty Canada Electronics Limited
Electralogics Incorporated
H. T. Watt & Associates Ltd.
Harmic Design Div of Three Port Mfg Ltd.
JPS Microsystems Inc.
Knopafex Ltd.
Lancom Technologies
Leigh Instruments Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Loksek Inc.
Microset
Norwich Duff and Associates, Inc.

COMMUNICATIONS

OCM Technology Inc.
Optimage
Orion Technical Consulting Ltd.
Prior Data Sciences Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reitek Inc.
Sicotel
Telcom Research
Topping Electronics Ltd.
Videtics Ltd.

PROCESS CONTROL

AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Andyne Computing Limited
Antel Optronics Inc.
Arnott Design Group Inc.
Banke Electronics Limited
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Buckley Fraser Williams Inc.
C-Tech Ltd.
Cameron Bates Microcomputer Software
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Comtest Instruments Ltd.
Crossbow Electronics Inc.
Detronics Ltd.
Digitrol Computers Inc.
Dowty Canada Electronics Limited
Electralogics Incorporated
H & O Centerless Grinding Inc.
H. T. Watt & Associates Ltd.
Indal Technologies Inc.
International Epitek Inc.
JPS Microsystems Inc.
KJ Marketing Services
Kan Act Ltd.
Knopafex Ltd.
Lightguide Systems Inc.
Linnell & Associates Ltd.
Loksek Inc.
Microset
Multitest Electronics
Norwich Duff and Associates, Inc.
OCM Technology Inc.

PROCESS CONTROL

Optimage
Orion Technical Consulting Ltd.
P-Can Machining Inc.
Prior Data Sciences Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Sander Geophysics Limited
Tektron Equipment Corporation
Telcom Research
Videtics Ltd.

CIRCUIT BOARD DESIGN

SINGLE SIDED / TWO SIDED

AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Absopulse Electronics Ltd.
Advance Electronic Sub-Systems Inc.
Andyne Computing Limited
Antel Optronics Inc.
Aqcon Inc.
Arjay Engineering Ltd.
BTL Division Jannock Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Car-San Manufacturing Ltd.
Cirtronics
Computech Micro Design
Comtest Instruments Ltd.
Crest Circuit Inc.
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Datsym Inc.
Digitrol Computers Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
G & J Electronics Inc.
Gidden Morton Associates
Guildline Instruments Ltd.
H. T. Watt & Associates Ltd.

SINGLE SIDED / TWO SIDED

Hamilton Engraving Co. Ltd.
 Harmic Design Div of Three Port Mfg Ltd.
 International Epitex Inc.
 K & J Subassembly Co. Ltd.
 KJ Marketing Services
 Kan Act Ltd.
 Knopafex Ltd.
 Lazer-Tech Limited
 Leigh Instruments Ltd.
 Loksek Inc.
 Microart Services Inc.
 Microset
 Microtel Ltd.
 OCM Technology Inc.
 OEM Electronic Components Ltd.
 Ortech Corporation
 Pachena Scientific & Ind Electronics Inc
 Plus 1 (Div. of Dy-4 Systems Inc.)
 Polytek Electronics
 Pri Con Corporation
 QSDM Inc.
 Quality Circuits Manufacturing Ltd.
 Rantech Electronics Ltd.
 Reltek Inc.
 Renco Design Ltd.
 Rodlin Instruments Inc.
 Sicotel
 Silcom Manufacturing Technology Inc.
 Smart Computer Aided Design & Proto. Inc
 Spectrum Electronics
 Surface Mount Technology Centre
 T.J. Mousseau Tech. Serv. & Elect. Lab.
 Tasque Technologies
 Tectrol Inc.
 Tektron Equipment Corporation
 Telcom Research
 Topping Electronics Ltd.
 Wheatfield Instrument Corp. Ltd.
 Zavitz Technology Inc.

MULTI-LAYER

AME Microsystems Engineering Ltd.
 Advance Electronic Sub-Systems Inc.
 Antel Optonics Inc.
 Aqcon Inc.
 BTL Division Jannock Ltd.
 Bridge Integrated Technologies Inc.

MULTI-LAYER

C-Tech Ltd.
 CAD/CAM Graphics (1984) Limited
 Circronics
 Computech Micro Design
 Crossbow Electronics Inc.
 D.G.A. Electronics Ltd.
 Dowty Canada Electronics Limited
 Electralogics Incorporated
 Electrohome Limited
 Gidden Morton Associates
 Graphico Electronics Group
 Guildline Instruments Ltd.
 H. T. Watt & Associates Ltd.
 Harmic Design Div of Three Port Mfg Ltd.
 International Epitex Inc.
 Kan Act Ltd.
 Knopafex Ltd.
 Lazer-Tech Limited
 Leigh Instruments Ltd.
 Loksek Inc.
 Microart Services Inc.
 Microset
 Microtel Ltd.
 OCM Technology Inc.
 OEM Electronic Components Ltd.
 Ortech Corporation
 Pachena Scientific & Ind Electronics Inc
 Plus 1 (Div. of Dy-4 Systems Inc.)
 Pri Con Corporation
 QSDM Inc.
 Quality Circuits Manufacturing Ltd.
 Reltek Inc.
 Renco Design Ltd.
 Silcom Manufacturing Technology Inc.
 Smart Computer Aided Design & Proto. Inc
 Surface Mount Technology Centre
 T.J. Mousseau Tech. Serv. & Elect. Lab.
 Tasque Technologies
 Tectrol Inc.
 Tektron Equipment Corporation
 Wheatfield Instrument Corp. Ltd.

SURFACE MOUNTED DEVICES

AME Microsystems Engineering Ltd.
 ASW Computer Systems Ltd.
 Bridge Integrated Technologies Inc.
 Burndy Inc.

SURFACE MOUNTED DEVICES

CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Circronics
Computech Micro Design
Crest Circuit Inc.
Crossbow Electronics Inc.
Electralogics Incorporated
Electrohome Limited
Gidden Morton Associates
Graphico Electronics Group
H. T. Watt & Associates Ltd.
Harmic Design Div of Three Port Mfg Ltd.
International Epitex Inc.
Kan Act Ltd.
Knopafex Ltd.
Lazer-Tech Limited
Leigh Instruments Ltd.
Microart Services Inc.
Microset
OCM Technology Inc.
OEM Electronic Components Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
Plus 1 (Div. of Dy-4 Systems Inc.)
Pri Con Corporation
QSDM Inc.
Quality Circuits Manufacturing Ltd.
Renco Design Ltd.
Silcom Manufacturing Technology Inc.
Smart Computer Aided Design & Proto. Inc
Surface Mount Technology Centre
Tasque Technologies
Tektron Equipment Corporation

LINE WIDTH 10 MIL OR LESS

ASW Computer Systems Ltd.
Advance Electronic Sub-Systems Inc.
Arjay Engineering Ltd.
BTL Division Jannock Ltd.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Circronics
Computech Micro Design
Comtest Instruments Ltd.
Crest Circuit Inc.
Crossbow Electronics Inc.

LINE WIDTH 10 MIL OR LESS

Dowty Canada Electronics Limited
Electrohome Limited
Gidden Morton Associates
Graphico Electronics Group
Guldline Instruments Ltd.
H. T. Watt & Associates Ltd.
Hamilton Engraving Co. Ltd.
Harmic Design Div of Three Port Mfg Ltd.
International Epitex Inc.
Kan Act Ltd.
Knopafex Ltd.
Lazer-Tech Limited
Leigh Instruments Ltd.
Loksek Inc.
Microart Services Inc.
Microtel Ltd.
OCM Technology Inc.
OEM Electronic Components Ltd.
Pachena Scientific & Ind Electronics Inc
Plus 1 (Div. of Dy-4 Systems Inc.)
Pri Con Corporation
Quality Circuits Manufacturing Ltd.
Rantech Electronics Ltd.
Renco Design Ltd.
Silcom Manufacturing Technology Inc.
Smart Computer Aided Design & Proto. Inc
Surface Mount Technology Centre
Tektron Equipment Corporation
Topping Electronics Ltd.
Zavitz Technology Inc.

FLEXIBLE BOARDS

BTL Division Jannock Ltd.
Bridge Integrated Technologies Inc.
CAD/CAM Graphics (1984) Limited
Electrohome Limited
Gidden Morton Associates
Graphico Electronics Group
Harmic Design Div of Three Port Mfg Ltd.
Kan Act Ltd.
Knopafex Ltd.
OEM Electronic Components Ltd.
Plus 1 (Div. of Dy-4 Systems Inc.)
Pri Con Corporation
QSDM Inc.
Quality Circuits Manufacturing Ltd.
Silcom Manufacturing Technology Inc.

FLEXIBLE BOARDS

Smart Computer Aided Design & Proto. Inc.
Surface Mount Technology Centre
Tektron Equipment Corporation
Topping Electronics Ltd.

POLYMER THICK FILM

CAD/CAM Graphics (1984) Limited
Electrohome Limited
Gidden Morton Associates
Harmic Design Div of Three Port Mfg Ltd.
Pri Con Corporation
Silcom Manufacturing Technology Inc.
Surface Mount Technology Centre
Tektron Equipment Corporation

THIN FILM

Bestek Micro Devices & Systems Inc.
CAD/CAM Graphics (1984) Limited
Electrohome Limited
Gidden Morton Associates
Harmic Design Div of Three Port Mfg Ltd.
Leigh Instruments Ltd.
Ortech Corporation
Plus 1 (Div. of Dy-4 Systems Inc.)
Pri Con Corporation

IC DESIGN EVALUATION

GATE ARRAYS

Bridge Integrated Technologies Inc.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Crossbow Electronics Inc.
Genesis Microchip Inc.
Gennum Corporation
Gidden Morton Associates
Guildline Instruments Ltd.
Hamilton Avnet Electronics
LSI Logic Corporation of Canada Inc.
Leigh Instruments Ltd.
Motorola Ltd. Semiconductor Division
National Semiconductor Canada Ltd.

GATE ARRAYS

Ortech Corporation
Pachena Scientific & Ind Electronics Inc
RMF and Associates Ltd.

STANDARD CELLS

Bridge Integrated Technologies Inc.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Crossbow Electronics Inc.
Genesis Microchip Inc.
Gidden Morton Associates
Hamilton Avnet Electronics
LSI Logic Corporation of Canada Inc.
Motorola Ltd. Semiconductor Division
National Semiconductor Canada Ltd.
Ortech Corporation
Silcom Manufacturing Technology Inc.

FULL CUSTOM

Antel Optronics Inc.
Bridge Integrated Technologies Inc.
Calmos Systems Inc.
Crossbow Electronics Inc.
Custom Plastics International Ltd.
F & H Plastics Ltd.
Genesis Microchip Inc.
Gennum Corporation
Gidden Morton Associates
JPS Microsystems Inc.
Motorola Ltd. Semiconductor Division

PROTOTYPING

Antel Optronics Inc.
B & B Design Associates
Bridge Integrated Technologies Inc.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Crossbow Electronics Inc.
F & H Plastics Ltd.
Genesis Microchip Inc.
Gennum Corporation
Gidden Morton Associates
Hamilton Avnet Electronics

PROTOTYPING

LSI Logic Corporation of Canada Inc.
Motorola Ltd. Semiconductor Division
National Semiconductor Canada Ltd.
Pachena Scientific & Ind Electronics Inc
Wheatfield Instrument Corp. Ltd.
Zavitz Technology Inc.

PCB MANUFACTURER

SINGLE SIDED / TWO SIDED

BTL Division Jannock Ltd.
Camptech Circuits Inc.
Circronics
Circuitron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Fine Line Circuits Ltd.
Hamilton Engraving Co. Ltd.
ITL Circuits
K & J Subassembly Co. Ltd.
Lazer-Tech Limited
MPC Circuits inc.
Metaplast Circuits Limited
Microart Services inc.
Microtel Ltd.
OEM Electronic Components Ltd.
PC World, Div. of Helix Circuits Inc.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.
Spectrum Electronics
Tektron Equipment Corporation
Zavitz Technology Inc.

MULTI-LAYER

Advanced Circuit Technologies Corp.
BTL Division Jannock Ltd.
Circronics
Circuitron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Fine Line Circuits Ltd.
Graphico Electronics Group

MULTI-LAYER

ITL Circuits
Lazer-Tech Limited
MPC Circuits Inc.
Metaplast Circuits Limited
Microart Services Inc.
Microtel Ltd.
OEM Electronic Components Ltd.
PC World, Div. of Helix Circuits Inc.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.

SURFACE MOUNTED DEVICES

Advanced Circuit Technologies Corp.
Circronics
Circuitron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Fine Line Circuits Ltd.
Graphico Electronics Group
ITL Circuits
Lazer-Tech Limited
MPC Circuits Inc.
Metaplast Circuits Limited
Microart Services Inc.
Microtel Ltd.
PC World, Div. of Helix Circuits Inc.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.

LINE WIDTH 10 MIL OR LESS

Advanced Circuit Technologies Corp.
BTL Division Jannock Ltd.
Camptech Circuits Inc.
Circronics
Circuitron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Fine Line Circuits Ltd.
Graphico Electronics Group
ITL Circuits
Lazer-Tech Limited
MPC Circuits Inc.
Metaplast Circuits Limited

LINE WIDTH 10 MIL OR LESS

Microart Services Inc.
Microtel Ltd.
OEM Electronic Components Ltd.
PC World, Div. of Helix Circuits Inc.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.
Tektron Equipment Corporation
Zavitz Technology Inc.

FLEXIBLE BOARDS

BTL Division Jannock Ltd.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Graphico Electronics Group
ITL Circuits
MPC Circuits Inc.
Metaplast Circuits Limited
OEM Electronic Components Ltd.
Quality Circuits Manufacturing Ltd.
Tektron Equipment Corporation

POLYMER THICK FILM

Dynamic & Proto Circuits Inc.
Electrohome Limited
MPC Circuits Inc.
Tektron Equipment Corporation

THIN FILM

Dynamic & Proto Circuits Inc.
Electrohome Limited
Ortech Corporation

PROTOTYPE DEVELOPMENT

Advanced Circuit Technologies Corp.
BTL Division Jannock Ltd.
Camptech Circuits Inc.
Circronics
Circultron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited

PROTOTYPE DEVELOPMENT

Fine Line Circuits Ltd.
Graphico Electronics Group
ITL Circuits
K & J Subassembly Co. Ltd.
Lafontaine Consulting Services
Lazer-Tech Limited
MPC Circuits Inc.
Metaplast Circuits Limited
Microtel Ltd.
OEM Electronic Components Ltd.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.
Spectrum Electronics
Tektron Equipment Corporation
Zavitz Technology Inc.

ELECTRICAL TESTING

BTL Division Jannock Ltd.
Camptech Circuits Inc.
Circronics
Circultron Inc.
Crest Circuit Inc.
Dynamic & Proto Circuits Inc.
Electrohome Limited
Fine Line Circuits Ltd.
Graphico Electronics Group
ITL Circuits
Lafontaine Consulting Services
Lazer-Tech Limited
MPC Circuits Inc.
Metaplast Circuits Limited
Microtel Ltd.
OEM Electronic Components Ltd.
Prototype Circuits Inc.
Quality Circuits Manufacturing Ltd.
Spectrum Electronics
Tektron Equipment Corporation
Zavitz Technology Inc.

PCB ASSEMBLY

AUTOMATIC INSERTION DIPS

Bridge Integrated Technologies Inc.
Compas/Computer Assembly Systems Ltd.

AUTOMATIC INSERTION DIPS

Crest Circuit Inc.
Electrohome Limited
Garrett Canada
Microtel Ltd.
Surface Mount Technology Centre
Tasque Technologies
Tectrol Inc.
Tie Communications Canada Inc.

AUTOMATIC INSERTION AXIAL

Bridge Integrated Technologies Inc.
Compas/Computer Assembly Systems Ltd.
Crest Circuit Inc.
Electrohome Limited
Loksek Inc.
Microtel Ltd.
Surface Mount Technology Centre
Tasque Technologies
Tectrol Inc.
Tektron Equipment Corporation
Tie Communications Canada Inc.

WAVE SOLDERING

Aqcon Inc.
Arjay Engineering Ltd.
BTL Division Jannock Ltd.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
Calmos Systems Inc.
Car-San Manufacturing Ltd.
Compas/Computer Assembly Systems Ltd.
Component Mate
Crest Circuit Inc.
Datasym Inc.
Digitrol Computers Inc.
Doric Electronic Laboratories Ltd.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
Garrett Canada
Harmic Design Div of Three Port Mfg Ltd.
HI-Q.A. Inc.
KJ Marketing Services
Loksek Inc.
Microart Services Inc.

WAVE SOLDERING

Microtel Ltd.
Peel Circuit Board Assembly Ltd.
QSDM Inc.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Rodlin Instruments Inc.
Silcom Manufacturing Technology Inc.
Surface Assembly System Inc.
Surface Mount Technology Centre
Tasque Technologies
Tectrol Inc.
Tektron Equipment Corporation
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.
Zavitz Technology Inc.

PROGRAMMABLE TESTING

ASW Computer Systems Ltd.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
Compas/Computer Assembly Systems Ltd.
Crossbow Electronics Inc.
Electrohome Limited
Garrett Canada
Harmic Design Div of Three Port Mfg Ltd.
HI-Q.A. Inc.
International Epitex Inc.
Kan Act Ltd.
Loksek Inc.
Microtel Ltd.
Ortech Corporation
Peel Circuit Board Assembly Ltd.
Rantech Electronics Ltd.
Sicotel
Tasque Technologies
Tectrol Inc.
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.
Topping Electronics Ltd.
Zavitz Technology Inc.

SURFACE MOUNT CAPABILITY

ASW Computer Systems Ltd.
Aqcon inc.

SURFACE MOUNT CAPABILITY

Bridge Integrated Technologies Inc.
Calmos Systems Inc.
Compas/Computer Assembly Systems Ltd.
Component Mate
Electrohome Limited
Garrett Canada
HI-Q.A. Inc.
Indal Technologies Inc.
International Epitek Inc.
K & J Subassembly Co. Ltd.
Microart Services Inc.
Microtel Ltd.
Ortech Corporation
QSDM Inc.
Reltek Inc.
Sicotel
Silcom Manufacturing Technology Inc.
Surface Assembly System Inc.
Surface Mount Technology Centre
Tasque Technologies

PROTOTYPE QUANTITIES

ASW Computer Systems Ltd.
Advance Electronic Sub-Systems Inc.
Aqcon Inc.
Arjay Engineering Ltd.
BTL Division Jannock Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Cablecor Data Lines Limited
Calmos Systems Inc.
Car-San Manufacturing Ltd.
Compas/Computer Assembly Systems Ltd.
Component Mate
Computech Micro Design
Crest Circuit Inc.
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Digitrol Computers Inc.
Dowty Canada Electronics Limited
Electralogics Incorporated
Electrohome Limited
G & J Electronics Inc.
Garrett Canada

PROTOTYPE QUANTITIES

Gidden Morton Associates
Harmic Design Div of Three Port Mfg Ltd.
HI-Q.A. Inc.
Imago Manufacturing Limited
Indal Technologies Inc.
International Epitek Inc.
K & J Subassembly Co. Ltd.
Knopafex Ltd.
Lightguide Systems Inc.
Loksek Inc.
MPC Circuits Inc.
Microart Services Inc.
Microtel Ltd.
OCM Technology Inc.
OEM Electronic Components Ltd.
Ortech Corporation
Peel Circuit Board Assembly Ltd.
Polytek Electronics
Pri Con Corporation
QSDM Inc.
Quality Circuits Manufacturing Ltd.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Rodlin Instruments Inc.
Sicotel
Silcom Manufacturing Technology Inc.
Spectrum Electronics
Surface Assembly System Inc.
Surface Mount Technology Centre
Tasque Technologies
Tech 5 Ltd.
Tectrol Inc.
Tektron Equipment Corporation
Telcom Research
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.
Topping Electronics Ltd.
Zavitz Technology Inc.

FINAL ASSEMBLY AND WIRING

ASW Computer Systems Ltd.
Aqcon Inc.
Arjay Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Blenkhorn and Sawie Ltd.
Bridge Integrated Technologies Inc.

FINAL ASSEMBLY AND WIRING

C-Tech Ltd.
CAD/CAM Graphics (1984) Limited
Cablecor Data Lines Limited
Car-San Manufacturing Ltd.
Carriere Technical Industries Inc.
Compas/Computer Assembly Systems Ltd.
Component Mate
Crest Circuit Inc.
Crossbow Electronics Inc.
Datasym Inc.
Digitrol Computers Inc.
Dowty Canada Electronics Limited
Electralogics Incorporated
Garrett Canada
Harmic Design Div of Three Port Mfg Ltd.
Hi-Q.A. Inc.
Imago Manufacturing Limited
Indal Technologies Inc.
International Epitek Inc.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Kan Act Ltd.
Knopafex Ltd.
Loksek Inc.
Matrix Systems Ltd.
Microtel Ltd.
Nyab Vicom, A Division of General Signal
OCM Technology Inc.
Ortech Corporation
Peel Circuit Board Assembly Ltd.
Prestec Electronics Ltd.
QSDM Inc.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Rodlin Instruments Inc.
Sicotel
Silcom Manufacturing Technology Inc.
Surface Mount Technology Centre
Tasque Technologies
Tech 5 Ltd.
Tectrol Inc.
Tektron Equipment Corporation
Telcom Research
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.
Topping Electronics Ltd.
Zavitz Technology Inc.

PLASTIC ENCLOSURES,PARTS FIXTURES

LARGE PARTS - HOUSINGS, ENCLOSURES

Anderson Metal Industries Inc.
Bridge Integrated Technologies Inc.
Canadian Plastics Inc.
Dlemaster Tool Inc.
Dunlea Products Company Ltd.
EMU Plastics Ltd.
Euro Moulds Inc.
Extrusion Plastics Inc.
Horn Plastics Ltd.
Loksek Inc.
MNG Plastics Ltd.
Main Prototypes Ltd.
Matrix Systems Ltd.
Mitchell Plastics Ltd.
Moldcraft Plastics Ltd.
NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Sigma Moulders
Unified Engineering & Contracting Inc.

SMALL PARTS

AML
ASW Computer Systems Ltd.
Anderson Metal Industries Inc.
Banke Electronics Limited
Bestek Micro Devices & Systems Inc.
Burdy Inc.
Cablecor Data Lines Limited
Canadian Plastics Inc.
Custom Plastics International Ltd.
Dlemaster Tool Inc.
Dunlea Products Company Ltd.
EMU Plastics Ltd.
Euro Moulds Inc.
Extrusion Plastics Inc.
F & H Plastics Ltd.
Horn Plastics Ltd.
KJ Marketing Services
Loksek Inc.
Main Prototypes Ltd.
Mitchell Plastics Ltd.
Moldcraft Plastics Ltd.

SMALL PARTS

NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.
Patrick Plastics Inc.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Prescott Module Co. Ltd.
Sigma Moulders

PROTOTYPING

AML
ASW Computer Systems Ltd.
Adamson Industrial Design Inc.
Bennett Precision Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Bridge Integrated Technologies Inc.
Cablecor Data Lines Limited
Canadian Plastics Inc.
Cowley Consultants Limited
Custom Plastics International Ltd.
Diemaster Tool Inc.
Dunlea Products Company Ltd.
EMU Plastics Ltd.
Euro Moulds Inc.
Extrusion Plastics Inc.
F & H Plastics Ltd.
Horn Plastics Ltd.
KJ Marketing Services
Kuypers Adamson Norton Ltd.
Loksek Inc.
MNG Plastics Ltd.
Main Prototypes Ltd.
Moldcraft Plastics Ltd.
NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.
Ortech Corporation
Ove Design Toronto Ltd.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Polytek Electronics
Sigma Moulders

LONG PRODUCTION RUNS

AML
Banke Electronics Limited
Canadian Plastics Inc.
Custom Plastics International Ltd.
Diemaster Tool Inc.
Dunlea Products Company Ltd.
EMU Plastics Ltd.
Euro Moulds Inc.
Extrusion Plastics Inc.
F & H Plastics Ltd.
Horn Plastics Ltd.
Loksek Inc.
MNG Plastics Ltd.
Mitchell Plastics Ltd.
Moldcraft Plastics Ltd.
NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.
Patrick Plastics Inc.
Payne Metal Enterprises Ltd.
Prescott Module Co. Ltd.
Sigma Moulders

SPECIAL COATING AND SHIELDING

BTL Division Jannock Ltd.
Bestek Micro Devices & Systems Inc.
Canadian Plastics Inc.
EMU Plastics Ltd.
MNG Plastics Ltd.
Moldcraft Plastics Ltd.
NVF Industries of Canada Ltd.
Ortech Corporation
Payne Metal Enterprises Ltd.
Prescott Module Co. Ltd.

APPROVALS I.E. CSA/UL

BESSI/Biomed. Eng. Shared Services Inc.
Canadian Plastics Inc.
Certelec Laboratories Inc.
Diemaster Tool Inc.
EMU Plastics Ltd.
F & H Plastics Ltd.
Horn Plastics Ltd.
KJ Marketing Services
NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.

APPROVALS IE. CSA/UL

Ortech Corporation
Payne Metal Enterprises Ltd.
Sigma Moulders

JIGS AND FIXTURES

AML
Anderson Metal Industries Inc.
Antrim Tool & Machine Manufacturing Inc.
Ashworth Fallows Inc.
Bennett Precision Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Cowley Consultants Limited
Diemaster Tool Inc.
Donmor Precision Limited
Dunlea Products Company Ltd.
EMU Plastics Ltd.
Euro Moulds Inc.
F & H Plastics Ltd.
Horn Plastics Ltd.
KJ Marketing Services
Knoch Manufacturing Co. Ltd.
MNG Plastics Ltd.
Main Prototypes Ltd.
Mitchell Plastics Ltd.
Moldcraft Plastics Ltd.
Morton Knecht & Associates
NVF Industries of Canada Ltd.
North Bay Plastic Molders Ltd.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Prescott Module Co. Ltd.
Sigma Moulders

METAL FABRICATION

STANDARD "OFF THE SHELF" ENCLOSURES

ADH Custom Metal Fabricators Inc.
Blenkhorn and Sawle Ltd.
Bridge Integrated Technologies Inc.
Capulum Cable Technologies Ltd.
Car-San Manufacturing Ltd.
Carriere Technical Industries Inc.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited

STANDARD "OFF THE SHELF" ENCLOSURES

Electronic Metalform Industries Limited
J.J. Charlton Company Ltd.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Loksek Inc.
Matrix Systems Ltd.
Microtel Ltd.
Nelson Industrial Fabricating Ltd.
P-Can Machining Inc.
Prescott Module Co. Ltd.
Quest-Tech Precision Inc.
Ritz Electronics Limited
Sicotel
Tech 5 Ltd.

LARGE AND/OR CUSTOM ENCLOSURES & FRAME

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Alexander Metal Products Ltd.
B.C. instruments Inc.
Blenkhorn and Sawle Ltd.
Bridge Integrated Technologies Inc.
Capulum Cable Technologies Ltd.
Car-San Manufacturing Ltd.
Carriere Technical Industries Inc.
Cercor Inc.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Electronic Metalform Industries Limited
Euro Moulds Inc.
Indal Technologies Inc.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Loksek Inc.
Main Prototypes Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Price & Knott Mfg. Co. Limited
Qualified Metal Fab Ltd.
Ritz Electronics Limited
Saltfleet Aluminum Foundry Ltd.
Sicotel
Tech 5 Ltd.

LARGE AND/OR CUSTOM ENCLOSURES & FRAMES

Unified Engineering & Contracting Inc.

ALUMINUM PARTS AND ENCLOSURES

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Alexander Metal Products Ltd.
Anderson Metal Industries Inc.
B.C. Instruments Inc.
Bennett Precision Engineering Ltd.
Bio-Tech Co.
Blenkhorn and Sawie Ltd.
Bridge Integrated Technologies Inc.
Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Cayuga Automatic Machining (1985) Ltd.
Cercor Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Electrohome Limited
Electronic Metalform Industries Limited
Euro Moulds Inc.
H & O Centerless Grinding Inc.
Indal Technologies Inc.
J.J. Charlton Company Ltd.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Loksek Inc.
Main Prototypes Ltd.
NW Clayton Limited
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Prescott Module Co. Ltd.
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Qualified Metal Fab Ltd.
Quest-Tech Precision Inc.
Ritz Electronics Limited
Saltfleet Aluminum Foundry Ltd.
Sicotel
Unified Engineering & Contracting Inc.
Williams Machines (Div. Havlik Tech.)

ENCLOSURES: TO CSA/EEMAC/UL STANDARDS

Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Alexander Metal Products Ltd.
Bennett Precision Engineering Ltd.
Blenkhorn and Sawie Ltd.
Bridge Integrated Technologies Inc.
Carriere Technical Industries Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Electronic Metalform Industries Limited
Indal Technologies Inc.
K & J Subassembly Co. Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
P-Can Machining Inc.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Quest-Tech Precision Inc.
Ritz Electronics Limited
Saltfleet Aluminum Foundry Ltd.
Sicotel
Unified Engineering & Contracting Inc.

PARTS - STAMPED/PRESSED

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Ajax Precision Mfg. Ltd.
Alexander Metal Products Ltd.
Anderson Metal Industries Inc.
Antrim Tool & Machine Manufacturing Inc.
Aqcon Inc.
Bestek Micro Devices & Systems Inc.
Carriere Technical Industries Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Diemaster Tool Inc.
Electrohome Limited
Indal Technologies Inc.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Knoch Manufacturing Co. Ltd.
Leecraft Industries Ltd.

PARTS - STAMPED/PRESSED

Main Prototypes Ltd.
Microtel Ltd.
NW Clayton Limited
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Prescott Module Co. Ltd.
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Qualified Metal Fab Ltd.
Ritz Electronics Limited
Sicotel
Sigma Moulders
Unified Engineering & Contracting Inc.

PARTS - BRAKE AND FORM

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Alexander Metal Products Ltd.
Anderson Metal Industries Inc.
Aqcon Inc.
Bestek Micro Devices & Systems Inc.
Blenkhorn and Sawie Ltd.
Carriere Technical Industries Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Electrohome Limited
Electronic Metalform Industries Limited
Fishercast-Div. Fisher Gauge Ltd.
Indal Technologies Inc.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Main Prototypes Ltd.
Microtel Ltd.
NW Clayton Limited
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Qualified Metal Fab Ltd.

PARTS - BRAKE AND FORM

Quest-Tech Precision Inc.
Ritz Electronics Limited
Tech 5 Ltd.
Unified Engineering & Contracting Inc.

PROTOTYPING

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc.
Alexander Metal Products Ltd.
Anderson Metal Industries Inc.
Aqcon Inc.
Ashworth Fallows Inc.
Bennett Precision Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Cayuga Automatic Machining (1985) Ltd.
Cercor Inc.
Cowley Consultants Limited
Crossbow Electronics Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Donmor Precision Limited
Electralogics Incorporated
Electrohome Limited
Electronic Metalform Industries Limited
Euro Moulds Inc.
H & O Centerless Grinding Inc.
J.J. Charlton Company Ltd.
K & J Subassembly Co. Ltd.
KJ Marketing Services
Knoch Manufacturing Co. Ltd.
Kuypers Adamson Norton Ltd.
Loksek Inc.
Main Prototypes Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Ortech Corporation
Ove Design Toronto Ltd.
P-Can Machining Inc.
Payne Metal Enterprises Ltd.

PROTOTYPING

Percept Industrial Design Inc.
Polytek Electronics
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Quest-Tech Precision Inc.
Ritz Electronics Limited
Saltfleet Aluminum Foundry Ltd.
Sicotel
Sigma Moulders
Tech 5 Ltd.
Topping Electronics Ltd.
Unified Engineering & Contracting Inc.
Williams Machines (Div. Havlik Tech.)
Zavitz Technology Inc.

LONG PRODUCTION RUNS

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc
Ajax Precision Mfg. Ltd.
Aqcon Inc.
Bestek Micro Devices & Systems Inc.
Bridge Integrated Technologies Inc.
Carriere Technical Industries Inc.
Cayuga Automatic Machining (1985) Ltd.
Cercor Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Diemaster Tool Inc.
Electrohome Limited
Electronic Metalform Industries Limited
Euro Moulds Inc.
Fishercast-Div. Fisher Gauge Ltd.
H & O Centerless Grinding Inc.
J.J. Charlton Company Ltd.
K & J Subassembly Co. Ltd.
Knoch Manufacturing Co. Ltd.
Loksek Inc.
Microtel Ltd.
NW Clayton Limited
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
P-Can Machining Inc.
Payne Metal Enterprises Ltd.
Prescott Module Co. Ltd.

LONG PRODUCTION RUNS

Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Quest-Tech Precision Inc.
Ritz Electronics Limited
Saltfleet Aluminum Foundry Ltd.
Sicotel
Sigma Moulders
Stegg Limited
Tech 5 Ltd.
Williams Machines (Div. Havlik Tech.)

SPECIAL COATING AND SHIELDING

ADH Custom Metal Fabricators Inc.
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc
Anderson Metal Industries Inc.
Bridge Integrated Technologies Inc.
D. L. Custom (Div. 304260 Ontario Ltd.)
Dahlstrom of Canada Limited
Electrohome Limited
Knoch Manufacturing Co. Ltd.
Main Prototypes Ltd.
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Payne Metal Enterprises Ltd.
Price & Knott Mfg. Co. Limited
Quest-Tech Precision Inc.
Ritz Electronics Limited
Stegg Limited

JIGS/FIXTURES, TOOLS/DIES, MOLDS

AML
Accuplus Custom Metal Fabricators Ltd.
Accuron Professional Metal Fabricat. Inc
Ajax Precision Mfg. Ltd.
Alexander Metal Products Ltd.
Anderson Metal Industries Inc.
Antrim Tool & Machine Manufacturing Inc.
Aqcon Inc.
Ashworth Fallows Inc.
B.C. Instruments Inc.
Bennett Precision Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.

JIGS/FIXTURES, TOOLS/DIES, MOLDS

Carriere Technical Industries Inc.
Cash Mould & Castings Limited
Cayuga Automatic Machining (1985) Ltd.
Cercor Inc.
Custom Components Manufacturing Co.
D. L. Custom (Div. 304260 Ontario Ltd.)
Diemaster Tool Inc.
Donmor Precision Limited
Electrohome Limited
Electronic Metalform Industries Limited
Euro Moulds Inc.
Fishercast-Div. Fisher Gauge Ltd.
H & O Centerless Grinding Inc.
Indal Technologies Inc.
KJ Marketing Services
Knoch Manufacturing Co. Ltd.
Leecraft Industries Ltd.
Main Prototypes Ltd.
Microtel Ltd.
Morton Knecht & Associates
National Engineering & Science Assoc.'s
Nelson Industrial Fabricating Ltd.
Nyab Vicom, A Division of General Signal
Ortech Corporation
P-Can Machining Inc.
Payne Metal Enterprises Ltd.
Prescott Module Co. Ltd.
Price & Knott Mfg. Co. Limited
Proto Engineering, Div. of Fraja Ltd.
Saltfleet Aluminum Foundry Ltd.
Sigma Moulders
Stegg Limited
Unified Engineering & Contracting Inc.
Williams Machines (Div. Havlik Tech.)

ELECTRICAL TESTING SERVICES

PASSIVE COMPONENT TESTING

ADH Custom Metal Fabricators Inc.
ASW Computer Systems Ltd.
Antel Optronics Inc.
Aprel Inc.
Arjay Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.

PASSIVE COMPONENT TESTING

Brosz and Associates
C-Tech Ltd.
Capulum Cable Technologies Ltd.
Certelec Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Comtest Instruments Ltd.
Dowty Canada Electronics Limited
Garrett Canada
Hamilton Avnet Electronics
Hi-Q.A. Inc.
Kan Act Ltd.
Microtel Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
Patlon Aircraft & Industries Limited
Peel Circuit Board Assembly Ltd.
Pri Con Corporation
QSDM Inc.
Reltek Inc.
Silcom Manufacturing Technology Inc.
Spectrum Electronics
Surface Mount Technology Centre
Tasque Technologies
Tectrol Inc.
Tektron Equipment Corporation
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.

INTEGRATED CIRCUIT TESTING

ASW Computer Systems Ltd.
Antel Optronics Inc.
Aprel Inc.
Arjay Engineering Ltd.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
Brosz and Associates
C-Tech Ltd.
Calmos Systems Inc.
Camptech Circuits Inc.
Comtest Instruments Ltd.
Dowty Canada Electronics Limited
Garrett Canada
Gennum Corporation
Halpen Engineering Inc.
Hamilton Avnet Electronics
Hi-Q.A. Inc.
K & J Subassembly Co. Ltd.

INTEGRATED CIRCUIT TESTING

KJ Marketing Services
Kan Act Ltd.
Microtel Ltd.
Multitest Electronics
Peel Circuit Board Assembly Ltd.
Pri Con Corporation
QSDM Inc.
Reltek Inc.
Silcom Manufacturing Technology Inc.
Surface Mount Technology Centre
Tectrol Inc.
Tektron Equipment Corporation
Tele-Radio Systems Ltd.
Tie Communications Canada Inc.

ELECTROMAGNETIC CHARACTERIZATION

Apriel Inc.
Certelec Laboratories Inc.
Garrett Canada
Marstech Ltd.
National Engineering & Science Assoc.'s
Ortech Corporation
Patton Aircraft & Industries Limited
Standards Approval Group Inc.
Tectrol Inc.

ENVIRONMENTAL AND VIBRATION TESTING

Apriel Inc.
Banke Electronics Limited
Calmos Systems Inc.
Certelec Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Dowty Canada Electronics Limited
Garrett Canada
Hamilton Avnet Electronics
Lafontaine Consulting Services
Marstech Ltd.
Microtel Ltd.
Multitest Electronics
Ortech Corporation
Patton Aircraft & Industries Limited
Reltek Inc.
Silcom Manufacturing Technology Inc.
Standards Approval Group Inc.
Tasque Technologies

ENVIRONMENTAL AND VIBRATION TESTING

Tectrol Inc.
Tele-Radio Systems Ltd.
Topping Electronics Ltd.

CERTIFICATION - UL

Apriel Inc.
Canadian Plastics Inc.
Certelec Laboratories Inc.
Circronics
Compas/Computer Assembly Systems Ltd.
Crest Circuit Inc.
Hamilton Engraving Co. Ltd.
MPC Circuits Inc.
Marstech Ltd.
Microtel Ltd.
OEM Electronic Components Ltd.
Pachena Scientific & Ind Electronics Inc
Patton Aircraft & Industries Limited
QSDM Inc.
Standards Approval Group Inc.
Tasque Technologies
Tech 5 Ltd.
Tectrol Inc.
Wasteneys Associated Consultants Ltd.

CERTIFICATION - CSA

Apriel Inc.
BESSI/Biomed. Eng. Shared Services Inc.
Canadian Plastics Inc.
Canadian Standards Association
Certelec Laboratories Inc.
Compas/Computer Assembly Systems Ltd.
Dowty Canada Electronics Limited
H & O Centerless Grinding Inc.
Marstech Ltd.
Microtel Ltd.
Pachena Scientific & Ind Electronics Inc
Patton Aircraft & Industries Limited
QSDM Inc.
Smith Boake Designwerke Inc.
Standards Approval Group Inc.
Tasque Technologies
Tech 5 Ltd.
Tectrol Inc.
Tektron Equipment Corporation

CERTIFICATION - CSA

Wasteney's Associated Consultants Ltd.
Zavitz Technology Inc.

CERTIFICATION - DOC

Apriel Inc.
Certelec Laboratories Inc.
Garrett Canada
Marstech Ltd.
Microtel Ltd.
Pachena Scientific & Ind Electronics Inc
Standards Approval Group Inc.
Wasteney's Associated Consultants Ltd.

CALIBRATION SERVICES

Apriel Inc.
Blenkhorn and Sawie Ltd.
Bridge Integrated Technologies Inc.
Brosz and Associates
C-Tech Ltd.
Canadian Standards Association
Certelec Laboratories Inc.
Garrett Canada
Gulldine Instruments Ltd.
Lafontaine Consulting Services
Microtel Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc
Pation Aircraft & Industries Limited
Peel Circuit Board Assembly Ltd.
Pri Con Corporation
QSDM Inc.
Reltek Inc.
Tasque Technologies

MARKET CONSULTING

NON-CONSUMER MARKET SIZING - CANADA

ASW Computer Systems Ltd.
Anderson Metal Industries Inc.
Banke Electronics Limited
Bridge Integrated Technologies Inc.
Bruce D. Vallillee Electronics Ltd.

NON-CONSUMER MARKET SIZING - CANADA

Camptech Circuits Inc.
Canadian Industrial Innovation Centre
Datasynt Inc.
H & O Centerless Grinding Inc.
Kan Act Ltd.
Lafontaine Consulting Services
Lightguide Systems Inc.
Pyramid Engineering and Mgt. Consultants
Stevenson Kellogg & Whinney
Surface Mount Technology Centre
Sysdoc International Inc.
Wasteney's Associated Consultants Ltd.

NON-CONSUMER MARKET SIZING - EXPORT

Anderson Metal Industries Inc.
Bridge Integrated Technologies Inc.
Bruce D. Vallillee Electronics Ltd.
Camptech Circuits Inc.
Canadian Industrial Innovation Centre
Datasynt Inc.
Kan Act Ltd.
Lightguide Systems Inc.
Silcom Manufacturing Technology Inc.
Stevenson Kellogg & Whinney
Sysdoc International Inc.
Wasteney's Associated Consultants Ltd.

DISTRIBUTOR NETWORK INVESTIGATION

Anderson Metal Industries Inc.
Bridge Integrated Technologies Inc.
Bruce D. Vallillee Electronics Ltd.
Canadian Industrial Innovation Centre
Comtest Instruments Ltd.
Gidden Morton Associates
Harriann Industries Ltd.
Pyramid Engineering and Mgt. Consultants
Silcom Manufacturing Technology Inc.
Stevenson Kellogg & Whinney
Surface Mount Technology Centre
Sysdoc International Inc.
Tasque Technologies
Wasteney's Associated Consultants Ltd.

PHYSICAL DISTRIBUTION ADVICE

Anderson Metal Industries Inc.
BESSI/Biomed. Eng. Shared Services Inc.
Banke Electronics Limited
Bridge Integrated Technologies Inc.
Bruce D. Vallilée Electronics Ltd.
Canadian Industrial Innovation Centre
Gidden Morton Associates
Harriann Industries Ltd.
Multitest Electronics
Stevenson Kellogg & Whinney
Surface Mount Technology Centre
Sysdoc International Inc.
Wasteneys Associated Consultants Ltd.

DOCUMENTATION SERVICES

PC ARTWORK SERVICE USING CAD

AME Microsystems Engineering Ltd.
ASW Computer Systems Ltd.
Anderson Metal Industries Inc.
Antel Optronics Inc.
Aqcon Inc.
Bio-Tech Co.
CAD/CAM Graphics (1984) Limited
Calmos Systems Inc.
Car-San Manufacturing Ltd.
Compas/Computer Assembly Systems Ltd.
Computech Micro Design
Comtest Instruments Ltd.
Crossbow Electronics Inc.
D.G.A. Electronics Ltd.
Digitrol Computers Inc.
Electrohome Limited
Gidden Morton Associates
Graphico Electronics Group
H. T. Watt & Associates Ltd.
Harmic Design Div of Three Port Mfg Ltd.
K & J Subassembly Co. Ltd.
Knopafex Ltd.
Lazer-Tech Limited
Loksek Inc.
Microart Services Inc.
Microset
OEM Electronic Components Ltd.
Ortech Corporation
Pachena Scientific & Ind Electronics Inc

PC ARTWORK SERVICE USING CAD

Peel Circuit Board Assembly Ltd.
Plus 1 (Div. of Dy-4 Systems Inc.)
Polytek Electronics
Pri Con Corporation
QSDM Inc.
Quality Circuits Manufacturing Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Renco Design Ltd.
Sander Geophysics Limited
Silcom Manufacturing Technology Inc.
Smart Computer Aided Design & Proto. Inc.
Surface Mount Technology Centre
Sysdoc International Inc.
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tasque Technologies
Tektron Equipment Corporation
Telcom Research
Topping Electronics Ltd.
Unified Engineering & Contracting Inc.
Zavitz Technology Inc.

TECHNICAL WRITING/MANUALS, ETC.

AME Microsystems Engineering Ltd.
Anderson Metal Industries Inc.
Aprel Inc.
Arjay Engineering Ltd.
Bestek Micro Devices & Systems Inc.
Bio-Tech Co.
Bridge Integrated Technologies Inc.
Bryan Walton and Associates Inc.
Calmos Systems Inc.
Canadian Standards Association
Computech Micro Design
Comtest Instruments Ltd.
Crossbow Electronics Inc.
Eldetic Systems Corporation
Electrohome Limited
FMS Engineering
Garrett Canada
Gidden Morton Associates
Goddu Systems Corp.
H & O Centerless Grinding Inc.
Halpen Engineering Inc.
Indal Technologies Inc.
KJ Marketing Services
Kan Act Ltd.

TECHNICAL WRITING/MANUALS, ETC.

Lafontaine Consulting Services
Microset
National Engineering & Science Assoc.'s
Niva Inc.
Optimage
Ortech Corporation
Ove Design Toronto Ltd.
Pachena Scientific & Ind Electronics Inc
Patton Aircraft & Industries Limited
Payne Metal Enterprises Ltd.
Percept Industrial Design Inc.
Priority 01 Computer Education Services
QSDM Inc.
RMF and Associates Ltd.
Rantech Electronics Ltd.
Reltek Inc.
Renco Design Ltd.
Silcom Manufacturing Technology Inc.
Spectrum Electronics
Sysdoc International Inc.
T.J. Mousseau Tech. Serv. & Elect. Lab.
Tektron Equipment Corporation
Unified Engineering & Contracting Inc.
Wheatfield Instrument Corp. Ltd.
Zavitz Technology Inc.

PHOTO TOOL MANUFACTURING

Bestek Micro Devices & Systems Inc.
CAD/CAM Graphics (1984) Limited
Cowley Consultants Limited
Crest Circuit Inc.
Gennum Corporation
Hamilton Engraving Co. Ltd.
Harmic Design Div of Three Port Mfg Ltd.
Lazer-Tech Limited
MPC Circuits Inc.
Microart Services Inc.
OEM Electronic Components Ltd.
Pachena Scientific & Ind Electronics Inc
Plus 1 (Div. of Dy-4 Systems Inc.)
Pri Con Corporation
Quality Circuits Manufacturing Ltd.
Silcom Manufacturing Technology Inc.
Smart Computer Aided Design & Proto. Inc
Spectrum Electronics
Surface Mount Technology Centre
Tektron Equipment Corporation

DIRECTORY OF

**Electronics
Design
Consulting
and
Subcontracting
Services**
IN ONTARIO

profiles

of service
companies

ADH Custom Metal Fabricators Inc.

**5 WEST DRIVE
BRAMPTON, ONTARIO
L6T 4T2**

**TELEPHONE
(416) 454-8880**

**CHIEF EXECUTIVE
REG. HOLT**

**CONTACT
BRENT RENTON, CUSTOMER SERVICE**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * custom enclosures
- * electronic bank kiosks
- * systems integrations

**SIZE OF FACILITY
33,000 sq. feet**

**NUMBER OF EMPLOYEES
40**

**ESTABLISHED
1971**

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding

ELECTRICAL TESTING SERVICES

- *passive component testing

AME Microsystems Engineering Ltd.

**156 OLD KING ROAD
BOLTON, ONTARIO
L7E 5R7**

**TELEPHONE
(416) 265-0543**

**CHIEF EXECUTIVE
J.A. OLDHAM**

**CONTACT
A. PUUST, V.P. MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

Services Include design & manufacture of systems for industrial applications; Included are product engineering, and firmware and software design for automation

MAJOR PRODUCTS & SERVICES

- * timed controllers (for energy conservation)
- * manufacturer of master-time clock-program devices
- * engineering for electronic/mechanical products
- * medium-run assembly of electronics units

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
6**

**ESTABLISHED
1982**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

AML

1040 SOMERSET STREET WEST
OTTAWA, ONTARIO
K1Y 4L3

TELEPHONE
(613) 728-8472

CHIEF EXECUTIVE
CARL C. NYMARK

CONTACT
CARL C. NYMARK, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Precision machining and electroplating
NC machines producing precision
components 1-10,000 in all materials.
Plating- anodizing and zinc plate on
high tech parts.

MAJOR PRODUCTS & SERVICES

- * machining
- * electroplating

SIZE OF FACILITY
9,000 sq. feet

ESTABLISHED
1988

SERVICES

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *small parts
- *prototyping
- *long production runs
- *jigs and fixtures

METAL FABRICATION

- *jigs/fixtures, tools/dies, molds

ASW Computer Systems Ltd.

75 LAKESHORE ROAD EAST
PORT CREOIT, ONTARIO
L5G 1C9

TELEPHONE
(416) 274-7774

CHIEF EXECUTIVE
R.O. MACBRIDE

CONTACT
PETER J. STOWER, DIRECTOR OF MARKETING

COMPANY PROFILE

SUMMARY PROFILE

A real-time computer-systems integrator specializing in SCADA (Supervisory Control and Data Acquisition) systems, and computer-aided telecommunication systems

MAJOR PRODUCTS & SERVICES

- * supervisory control and data acquisition systems
- * computer-aided telecommunications systems
- * real-time multitasking software development
- * consulting services

SIZE OF FACILITY
5,000 sq. feet

NUMBER OF EMPLOYEES
25

ESTABLISHED
1979

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *surface mounted devices
- *line width 10 mil or less

PCB ASSEMBLY

- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *small parts
- *prototyping

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

MARKET CONSULTING

- *non-consumer market sizing - Canada

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Absopulse Electronics Ltd.

**110 WALGREEN ROAD
CARP, ONTARIO
K0A 1L0**

**TELEPHONE
(613) 836-3511**

**CHIEF EXECUTIVE
A. B. SZULLO**

**CONTACT
TONY PLANGGER, CONTRACT MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Designing and building standard and custom power supplies and power systems.

MAJOR PRODUCTS & SERVICES

- * power supplies
- * DC/DC converters
- * power systems
- * custom power units

**SIZE OF FACILITY
13,000 sq. feet**

**NUMBER OF EMPLOYEES
40**

**ESTABLISHED
1982**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *power supply design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided

Accuplus Custom Metal Fabricators Ltd.

**5585 TIMBERLEA BOULEVARD
MISSISSAUGA, ONTARIO
L4W 2S4**

**TELEPHONE
(416) 238-3030**

**CHIEF EXECUTIVE
RICHARD J. DUGGAN**

**CONTACT
RICHARD J. DUGGAN, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
A complete precision metal-fabricating service

MAJOR PRODUCTS & SERVICES
* NC punching
* stainless steel fabrication
* chassis, panel and cabinetry
* brackets, guards and weldments

SIZE OF FACILITY
10,000 sq. feet

NUMBER OF EMPLOYEES
25

ESTABLISHED
1986

SERVICES

ENGINEERING DESIGN
*mechanical design
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*tool maker
*packaging design

METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding
*jigs/fixtures, tools/dies, molds

Accuron Professional Metal Fabricat. Inc

**232 HERZBERG ROAD
KANATA, ONTARIO
K2K 2A1**

**TELEPHONE
(613) 828-9274**

**CHIEF EXECUTIVE
BERNARDO SZTABINSKI**

**CONTACT
JAKE MAAT, SALES**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * fabricated metal products for the electronics industry, specializing in government and military applications
- * fabricated and machined products for the advertising displays
- * design services as required

**PARENT COMPANY
PRICE & KNOTT MFG. CO. LTD.**

**AFFILIATE NAMES
PRICE & KNOTT MFG. CO. LTD., AJAX, ONT.**

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
48**

**ESTABLISHED
1971**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*tool maker
*packaging design

METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding
*jigs/fixtures, tools/dies, molds

Acrolab Instruments Ltd.

**P.O. BOX 2425 WALKERVILLE
WINDSOR, ONTARIO
N8Y 4S2**

**TELEPHONE
(519) 944-5900**

**CHIEF EXECUTIVE
JOSEPH OUELLETTE**

**CONTACT
MARK ASHTON, INSIDE SALES MANAGER**

SERVICES

**ENGINEERING DESIGN
*thermal design**

COMPANY PROFILE

SUMMARY PROFILE

Acrolab is both a manufacturer and distributor (sales offices in Redford (Mich.) and Montreal (Que.) offering housing manufacturing, engineering, sales and administrative services.

MAJOR PRODUCTS & SERVICES

- * isobar heat pipes and manifolds
- * isoplaten heated platens
- * plastics and process industries thermocouples and RTD's
- * heating and cooling design, and engineering services for the plastics industry

SIZE OF FACILITY

6,800 sq. feet

NUMBER OF EMPLOYEES

22

ESTABLISHED

1950

Adamson Industrial Design Inc

174 AVENUE ROAD
TORONTO, ONTARIO
M5R 2J1

TELEPHONE
(416) 963-9356

CHIEF EXECUTIVE
SANDRA ADAMSON

CONTACT
JERRY ADAMSON

COMPANY PROFILE

SUMMARY PROFILE

A product design office with graphic design and human factor capability. Exhibit design for Introduction of new products.

MAJOR PRODUCTS & SERVICES

- * product design aesthetic
- * plastics development
- * part design and graphics
- * human factors
- * product launch exhibit

AFFILIATE NAMES

ADAMSON INDUSTRIAL DESIGN - U.S.

SIZE OF FACILITY

3,000 sq. feet

NUMBER OF EMPLOYEES

8

ESTABLISHED

1982

SERVICES

DESIGN - OTHER

- *enclosure design
- *packaging design
- *industrial design

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *prototyping

Advance Electronic Sub-Systems Inc.

**R.R. # 2
KETTLEBY, ONTARIO
L0G 1J0**

**TELEPHONE
(416) 939-7864**

**CHIEF EXECUTIVE
JACQUES F. PIEAU**

**CONTACT
JACQUES F. PIEAU, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* custom design/prototypes production
* data acquisition systems
* scientific instrumentation
* industrial controls

**SIZE OF FACILITY
950 sq. feet**

**NUMBER OF EMPLOYEES
4**

**ESTABLISHED
1977**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*power supply design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*line width 10 mil or less

PCB ASSEMBLY
*prototype quantities

Advanced Circuit Technologies Corp.

**222 MCINTYRE DRIVE
KITCHENER, ONTARIO
N2R 1E4**

**TELEPHONE
(519) 748-4755**

**CHIEF EXECUTIVE
ATSO SAARKOPPEL**

**CONTACT
ATSO SAARKOPPEL, PRESIDENT**

COMPANY PROFILE

**MAJOR PRODUCTS & SERVICES
* multilayer prototypes**

**SIZE OF FACILITY
9,300 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1983**

SERVICES

**PCB MANUFACTURER
*multi-layer
*surface mounted devices
*line width 10 mil or less
*prototype development**

Ajax Precision Mfg. Ltd.

**37 PENN DRIVE
WESTON, ONTARIO
M9L 2A6**

**TELEPHONE
(416) 741-2600**

**CHIEF EXECUTIVE
E. NEILL ELLIOTT**

**CONTACT
MEL H. MORGAN, VICE PRESIDENT SALES**

SERVICES

METAL FABRICATION
*parts - stamped/pressed
*long production runs
*jigs/fixtures, tools/dies, molds

COMPANY PROFILE

SUMMARY PROFILE
Stamping and tool shop handling welding
and riveting; the press range is from
30 to 600 tonnes.

MAJOR PRODUCTS & SERVICES
* stampings
* assemblies

**PARENT COMPANY
PERMIAN INDUSTRIES LTD.**

**SIZE OF FACILITY
60,000 sq. feet**

**NUMBER OF EMPLOYEES
140**

**ESTABLISHED
1940**

Alexander Metal Products Ltd.

1550 LAPERRIERE AVENUE
OTTAWA, ONTARIO
K1Z 7T2

TELEPHONE
(613) 728-5877

CHIEF EXECUTIVE
JOHN DOUGLAS IRVING

CONTACT
J. DOUGLAS IRVING, PRESIDENT

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * custom steel fabricating
- * plazma cutting
- * gas, arc, tig and semi-automatic mig welding

SIZE OF FACILITY
18,000 sq. feet

NUMBER OF EMPLOYEES
28

ESTABLISHED
1961

SERVICES

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *jigs/fixtures, tools/dies, molds

Anderson Metal Industries Inc.

131 SPINNAKER WAY
CONCORD, ONTARIO
L4K 2T2

TELEPHONE
(416) 736-4611

CHIEF EXECUTIVE
NELSON J. WHITEHEAD

CONTACT
YASH MARWAHA, MARKETING MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Manufacturing of components and assemblies for the aerospace nuclear and defence industries

MAJOR PRODUCTS & SERVICES

- * precision machined, critically finished parts, components and assemblies
- * sheet metal parts, components and assemblies for aerospace defence and nuclear industries
- * special machinery building to customer's specifications
- * tool, jigs and fixtures

SIZE OF FACILITY
25,500 sq. feet

NUMBER OF EMPLOYEES
28

ESTABLISHED
1958

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *jigs and fixtures

METAL FABRICATION

- *aluminum parts and enclosures
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export
- *distributor network investigation
- *physical distribution advice

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Andyne Computing Limited

**544 PRINCESS STREET
SUITE 202
KINGSTON, ONTARIO
K7L 1C7**

**TELEPHONE
(613) 548-4355**

**CHIEF EXECUTIVE
A. CAMERON THOMPSON**

**CONTACT
A. CAMERON THOMPSON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Digital hardware design, microcomputer
interface circuits, software
developers, real-time multitasking
software.

MAJOR PRODUCTS & SERVICES

- * PCMASCOT - real-time multitasking
kernel for IBM PC/XT/AT
- * custom software development
- * custom hardware development

SIZE OF FACILITY

1,200 sq. feet

NUMBER OF EMPLOYEES

10

ESTABLISHED

1976

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided

Antel Optronics Inc.

**3325-3329 MAINWAY DRIVE
BURLINGTON, ONTARIO
L7M 1A6**

**TELEPHONE
(416) 335-5507**

**CHIEF EXECUTIVE
ANTON F. STRIFLER**

**CONTACT
J. DAVE BROWN, MARKETING MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Integrated circuit wafer fabrication
line & optoelectronic components, CAD
Optics lab & instrumentation assembly.

MAJOR PRODUCTS & SERVICES
* photodiodes (Std. & Custom)
* bipolar IC's
* fiberoptic instruments
* diode laser systems

SIZE OF FACILITY
8,200 sq. feet

NUMBER OF EMPLOYEES
24

ESTABLISHED
1984

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*power supply design
*circuit simulations
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*simulation
*process control

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer

IC DESIGN AND EVALUATION
*full custom
*prototyping

ELECTRICAL TESTING SERVICES
*passive component testing
*integrated circuit testing

DOCUMENTATION SERVICES
*PC artwork service using CAD

Antrim Tool & Machine Manufacturing Inc.

**268 RUTHERFORD ROAD SOUTH
2
BRAMPTON, ONTARIO
L6W 3N3**

**TELEPHONE
(416) 454-3302**

**CHIEF EXECUTIVE
JAMES DOUGLAS**

**CONTACT
JAMES DOUGLAS, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
Production and design services.

MAJOR PRODUCTS & SERVICES
* tools, dies, fixtures, and special
machined parts

AFFILIATE NAMES
AMANTINE ENTERPRISES

SIZE OF FACILITY
9,000 sq. feet

NUMBER OF EMPLOYEES
6

ESTABLISHED
1982

SERVICES

ENGINEERING DESIGN
*circuit simulations

DESIGN - OTHER
*tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES
*jigs and fixtures

METAL FABRICATION
*parts - stamped/pressed
*jigs/fixtures, tools/dies, molds

Aprel Inc.

**38 ANTARES DRIVE
UNIT 500
NEPEAN, ONTARIO
K2E 7V2**

**TELEPHONE
(613) 727-0334**

**CHIEF EXECUTIVE
DR. JACEK J. WOJCIK**

**CONTACT
JAMES MOSHONAS, V.P. BUS. DEVELOPMENT**

COMPANY PROFILE

SUMMARY PROFILE
2 shielded enclosures, floating
anechoic chamber, open area test site,
environmental chambers (4).

MAJOR PRODUCTS & SERVICES
* certification testing DOC, FCC, CSA
* research/development projects
* acoustics
* EMI/EMC engineering services

SIZE OF FACILITY
21,000 sq. feet

NUMBER OF EMPLOYEES
12

ESTABLISHED
1981

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*power supply design

DESIGN - OTHER
*enclosure design

ELECTRICAL TESTING SERVICES
*passive component testing
*integrated circuit testing
*electromagnetic characterization
*environmental and vibration testing
*certification - UL
*certification - CSA
*certification - DOC
*calibration services

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Aqcon Inc.

**3791 VICTORIA PARK AVENUE
UNIT 1
SCARBOROUGH, ONTARIO
M1W 3K6**

**TELEPHONE
(416) 495-1732**

**CHIEF EXECUTIVE
ANTHONY TARGA**

**CONTACT
ANTHONY TARGA, PRESIDENT**

COMPANY PROFILE

**SIZE OF FACILITY
2,000 sq. feet**

**NUMBER OF EMPLOYEES
5**

**ESTABLISHED
1985**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *tool maker

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Arjay Engineering Ltd.

**2495 HAINES ROAD
MISSISSAUGA, ONTARIO
L4Y 1Y7**

**TELEPHONE
(416) 277-4547**

**CHIEF EXECUTIVE
RICHARD JOHN REEVES**

**CONTACT
GREG REEVES, MANAGER**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *mechanical design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *line width 10 mil or less

PCB ASSEMBLY

- *wave soldering
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

COMPANY PROFILE

SUMMARY PROFILE

A manufacturer of process controls, with its own line of instrumentation; it can provide assemblies by subcontract, from PCBs to panels, as well as C/W testing, design aids, and parts procurement

MAJOR PRODUCTS & SERVICES

- * level controls
- * control panels
- * electronics assembly
- * process control

AFFILIATE NAMES

**CAM-AM INSTRUMENTS LTD.
ENMET CANADA LTD.**

SIZE OF FACILITY

5,000 sq. feet

NUMBER OF EMPLOYEES

9

ESTABLISHED

1983

Arnott Design Group Inc.

**11 ONTARIO STREET
TORONTO, ONTARIO
M5A 4L6**

**TELEPHONE
(416) 867-8686**

**CHIEF EXECUTIVE
JOHN ARNOTT**

**CONTACT
JOHN ARNOTT, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
R&D operations in Canada. Sourcing,
manufacturing and distribution
worldwide. Innovations in
human-computer interaction.

AFFILIATE NAMES
THE ARNOTT GROUP
430603 ONTARIO LTD.

SIZE OF FACILITY
7,000 sq. feet

NUMBER OF EMPLOYEES
10

ESTABLISHED
1972

SERVICES

ENGINEERING DESIGN
*mechanical design
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design
*packaging design
*industrial design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications
*simulation
*communications
*process control

Ashworth Fallows Inc.

**426 QUEEN STREET WEST
CAMBRIDGE, ONTARIO
N3C 1H1**

**TELEPHONE
(519) 658-5123**

**CHIEF EXECUTIVE
DAVID FALLOWS**

**CONTACT
DAVID FALLOWS, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* special-purpose machine design
* material handling equipment
* design of jigs, fixtures, and tools
* engineering consultants
* project management

**PARENT COMPANY
PLANT ASSISTANCE SERVICES**

**SIZE OF FACILITY
4,300 sq. feet**

**NUMBER OF EMPLOYEES
20**

**ESTABLISHED
1974**

SERVICES

ENGINEERING DESIGN
*mechanical design
*mechanical analysis
*use of CAD in engineering design

DESIGN - OTHER
*manufacturability analysis/prod. methods
*tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES
*jigs and fixtures

METAL FABRICATION
*prototyping
*jigs/fixtures, tools/dies, molds

B & B Design Associates

**5 HERMIT COURT
DON MILLS, ONTARIO
M3B 1R4**

**TELEPHONE
(416) 445-7583**

**CHIEF EXECUTIVE
BERT T. BOBROVNICZKY**

**CONTACT
BERT T. BOBROVNICZKY, DESIGN DIRECTOR**

COMPANY PROFILE

**AFFILIATE NAMES
3D I.D. GROUP**

**NUMBER OF EMPLOYEES
3**

**ESTABLISHED
1974**

SERVICES

DESIGN - OTHER

- *enclosure design**
- *manufacturability analysis/prod. methods**
- *packaging design**
- *industrial design**

IC DESIGN AND EVALUATION

- *prototyping**

B.C. Instruments Inc.

**P.O. BOX 430
PROCTOR ROAD
SCHOMBERG, ONTARIO
L0G 1T0**

**TELEPHONE
(416) 366-6007**

**CHIEF EXECUTIVE
BRUNO CONZELMAN**

**CONTACT
JOHN ROMANO, SALES MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

A precision CNC machine shop serving major aerospace and aircraft companies; location is convenient, at the junction of highways 27 and 9 near Toronto

MAJOR PRODUCTS & SERVICES

- * precision machined components, sub assemblies and electronic enclosures
- * pewter plates
- * complete metal finishing in house
- * plastic injection moldings, mold design & manufacturing

**PARENT COMPANY
B.C. INSTRUMENTS INC.**

AFFILIATE NAMES

**AEROSPACE METAL FINISHING
GROCON PRECISION MACHINING
AVCO SCREW MACHINE**

**SIZE OF FACILITY
50,000 sq. feet**

**NUMBER OF EMPLOYEES
85**

**ESTABLISHED
1971**

SERVICES

**ENGINEERING DESIGN
*mechanical design**

**DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*tool maker**

**METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*jigs/fixtures, tools/dies, molds**

BESSI/Blomed. Eng. Shared Services Inc.

**7321 VICTORIA PARK AVENUE
UNIT 13
MARKHAM, ONTARIO
L3R 2M7**

**TELEPHONE
(416) 475-7535**

**CHIEF EXECUTIVE
GREG C. COUTTS**

**CONTACT
DAVID A. BAXTER, MANAGER CUST. SUPP.**

SERVICES

**PLASTIC ENCLOSURES,PARTS, FIXTURES
*approvals ie. CSA/UL**

**ELECTRICAL TESTING SERVICES
*certification - CSA**

**MARKET CONSULTING
*physical distribution advice**

COMPANY PROFILE

SUMMARY PROFILE

Medical equipment approvals testing.
Markham - 6,000 sq.ft. Barrie - 1,000
sq.ft., Kitchener - 2,000 sq.ft.,
Edmonton - 2,000 sq.ft. Remotes -
London & Peterborough - Montreal.

MAJOR PRODUCTS & SERVICES

- * repair of biomedical equipment
- * anaesthesia equipment
- * laboratory equipment
- * environmental services: hazardous
gas monitoring
- * consulting

**SIZE OF FACILITY
6,000 sq. feet**

**NUMBER OF EMPLOYEES
32**

**ESTABLISHED
1977**

BTL Division Jannock Ltd.

**11 DOHME AVENUE
TORONTO, ONTARIO
M4B 1Y9**

**TELEPHONE
(416) 752-2224**

**CHIEF EXECUTIVE
MARCEL VILLENEUVE**

**CONTACT
STEVEN A. KELLY, DIRECTOR OF MARKETING**

COMPANY PROFILE

SUMMARY PROFILE
Three divisions, making single, double-sided, multilayer and flexible printed wiring boards.

MAJOR PRODUCTS & SERVICES
* flexible PWB
* single/double sided PWB's
* multilayer PWB's

**PARENT COMPANY
JANNOCK LIMITED**

**AFFILIATE NAMES
HYLOGIC/PULSAR**

**SIZE OF FACILITY
82,000 sq. feet**

**NUMBER OF EMPLOYEES
300**

**ESTABLISHED
1971**

SERVICES

ENGINEERING DESIGN
*electronic circuit design

DESIGN - OTHER
*packaging design

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*line width 10 mil or less
*flexible boards

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*line width 10 mil or less
*flexible boards
*prototype development
*electrical testing

PCB ASSEMBLY
*wave soldering
*prototype quantities

PLASTIC ENCLOSURES,PARTS,FIXTURES
*special coating and shielding

Banke Electronics Limited

131 FINCHdene SQUARE
UNIT 3
SCARBOROUGH, ONTARIO
M1X 1A6

TELEPHONE
(416) 292-5152

CHIEF EXECUTIVE
RAY MURRAY

CONTACT
RAY MURRAY, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Manufacturers' representative: stock on hand includes many of its suppliers' items. The company also does equipment servicing, and its engineers are available to assist clients in custom design. Application of bar-coding is expertise.

MAJOR PRODUCTS & SERVICES

- * bar-coding printing and reading equipment
- * sensors, (pressure, light, load, temperature, ultrasonic)
- * mil spec connectors and cabling systems
- * non-contact measurement systems (laser, light, vision, ultrasonic)
- * tritium self-powered lamps and signs

SIZE OF FACILITY
3,000 sq. feet

NUMBER OF EMPLOYEES
10

ESTABLISHED
1964

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *communications
- *process control

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *small parts
- *long production runs

ELECTRICAL TESTING SERVICES

- *environmental and vibration testing

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *physical distribution advice

Barros & Associates Ltd.

**6400 MILLCREEK DRIVE
UNIT 11
MISSISSAUGA, ONTARIO
L5N 3E7**

**TELEPHONE
(416) 858-1043**

**CHIEF EXECUTIVE
PEDRO M. BARROS**

**CONTACT
PEDRO M. BARROS, PRESIDENT**

COMPANY PROFILE

**SIZE OF FACILITY
500 sq. feet**

**ESTABLISHED
1982**

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications
*communications

Bennett Precision Engineering Ltd.

**5035 TIMBERLEA BOULEVARD
UNITS 1-3
MISSISSAUGA, ONTARIO
L4W 2W9**

**TELEPHONE
(416) 624-4877**

**CHIEF EXECUTIVE
ROBERT BENNETT**

**CONTACT
ROBERT BENNETT, PRESIDENT**

COMPANY PROFILE

**SUMMARY PROFILE
Recognized by CSA to Z299.4**

MAJOR PRODUCTS & SERVICES
* machining and manufacturing of
precision parts
* prototypes, jigs and fixtures
* EDM service
* C.N.C. machining

**SIZE OF FACILITY
7,000 sq. feet**

**NUMBER OF EMPLOYEES
12**

**ESTABLISHED
1980**

SERVICES

PLASTIC ENCLOSURES, PARTS, FIXTURES

*prototyping
*jigs and fixtures

METAL FABRICATION

*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*prototyping
*jigs/fixtures, tools/dies, molds

Bestek Micro Devices & Systems Inc.

21-2485 LANCASTER ROAD
OTTAWA, ONTARIO
K1B 5L1

TELEPHONE
(613) 523-5211

CHIEF EXECUTIVE
NAE ISMAIL

CONTACT
NAE ISMAIL, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Facilities Include: YAG laser, X-Y micropositioner, thermo-vacuum lamination, Infrared furnace, an electronic system design and testing laboratory, microscopes, microchip dissection facility, ultrasonic tank, chemical etching.

MAJOR PRODUCTS & SERVICES

- * integrated solar power sources, standalone solar lamps, solar battery chargers, radios
- * electronic ballasts for lamps, controllers
- * research and development
- * subcontracts

SIZE OF FACILITY

1,200 sq. feet

NUMBER OF EMPLOYEES

7

ESTABLISHED

1983

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *thin film

PCB ASSEMBLY

- *prototype quantities
- *final assembly and wiring

PLASTIC ENCLOSURES,PARTS, FIXTURES

- *small parts
- *prototyping
- *special coating and shielding
- *jigs and fixtures

METAL FABRICATION

- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES

- *passive component testing

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.
- *photo tool manufacturing

Bio-Tech Co.

P.O. BOX 6385
HAMILTON, ONTARIO
L9C 6L9

TELEPHONE
(416) 575-4840

CHIEF EXECUTIVE
B.C. DE KAT

CONTACT
B.C. DE KAT, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

A small instrumentation design firm that provides design and prototype construction. There is a laboratory to provide micro controller (8051) testing and development as well as transducer construction. There is a complete shop facility including a Hardinge tool-room lathe.

MAJOR PRODUCTS & SERVICES

- * electronic circuit design of digital microcontroller operated devices
- * analog electronic circuit design
- * design of printed circuit boards
- * model shop for complete instrument and transducer prototype construction

SIZE OF FACILITY
600 sq. feet

NUMBER OF EMPLOYEES
1

ESTABLISHED
1972

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *simulation
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *prototype quantities

METAL FABRICATION

- *aluminum parts and enclosures
- *prototyping
- *jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Blenkhorn and Sawle Ltd.

**100 GRANTHAM AVENUE
P.O. BOX 3010
ST. CATHARINES, ONTARIO
L2R 7B9**

**TELEPHONE
(416) 684-9251**

**CHIEF EXECUTIVE
FREDRICK W. SAYERS**

**CONTACT
PAUL M. DOBROCKY, DIVISION MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Fabrication of electrical switchgear, control panels, sheet-metal components, and other units as well as motor and transformer repairs and rewinding services.

MAJOR PRODUCTS & SERVICES

- * control systems design and manufacture
- * sheet-metal fabrication
- * design & manufacture of metal clad/metal enclosed switchgear
- * motor and transformer repair

**PARENT COMPANY
CHRISCOTT HOLDINGS LTD.**

AFFILIATE NAMES

**SAYERS AND ASSOCIATES LTD.
ELECTRONIC CRAFTSMEN LTD.**

**SIZE OF FACILITY
40,000 sq. feet**

**ESTABLISHED
1948**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

PCB ASSEMBLY

- *final assembly and wiring

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - brake and form

ELECTRICAL TESTING SERVICES

- *calibration services

Bridge Integrated Technologies Inc.

257 FINCHDENE SQUARE
UNIT 7
SCARBOROUGH, ONTARIO
M1X 1B9

TELEPHONE
(416) 754-7229

CHIEF EXECUTIVE
W. K. SANDHAM, SR.

CONTACT
P. J. HANINK, DIRECTOR MKT. SERVICES

COMPANY PROFILE

SUMMARY PROFILE

Through hole, surface mount, assembly operations, a jobber.

MAJOR PRODUCTS & SERVICES

- * sub assembly of electronics
- * manufacturing radiation monitors
- * manufacturing closed caption decoders/encoders
- * R & D

SIZE OF FACILITY
20,000 sq. feet

NUMBER OF EMPLOYEES
16

ESTABLISHED
1981

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *full custom
- *prototyping

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures
- *prototyping

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *calibration services

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export
- *distributor network investigation
- *physical distribution advice

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Brosz and Associates

**3471 KENNEDY ROAD
SCARBOROUGH, ONTARIO
M1S 3B2**

**TELEPHONE
(416) 299-4224**

**CHIEF EXECUTIVE
HELMUT G. BROSZ**

**CONTACT
TRACY R. COLLEY, MARKETING AND SALES**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * Infrared thermal-imaging systems
- * electrical engineering consulting services
- * electrical forensic engineering

**SIZE OF FACILITY
2,600 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1982**

SERVICES

ENGINEERING DESIGN

- *electrical circuit design
- *use of CAD in engineering design

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *calibration services

Bruce D. Vallillee Electronics Ltd.

**36 TRAWLEY CRESCENT
AJAX, ONTARIO
L1S 5X8**

**TELEPHONE
(416) 427-7968**

**CHIEF EXECUTIVE
BRUCE D. VALLILLEE**

**CONTACT
SHAWN D. VALLILLEE, VICE PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Office facilities located in Ajax,
Ontario, complete computer, FAX
capabilities.

MAJOR PRODUCTS & SERVICES

- * business & marketing strategy plans
- * government liaison
- * development of logos, brochures,
communication material
- * acting marketing arm for various
corporations

**SIZE OF FACILITY
1,000 sq. feet**

**NUMBER OF EMPLOYEES
4**

**ESTABLISHED
1971**

SERVICES

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export
- *distributor network investigation
- *physical distribution advice

Bryan Walton and Associates Inc.

**380 ASPEN FOREST DRIVE
OAKVILLE, ONTARIO
L6J 6H5**

**TELEPHONE
(416) 338-1462**

**CHIEF EXECUTIVE
BRYAN WALTON**

**CONTACT
BRYAN WALTON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A consultant to the manufacturing industry, with emphasis on startup, quality control, scheduling, value engineering, and the optimization of resources.

MAJOR PRODUCTS & SERVICES

- * electronics manufacturing: start-up or change
- * quality programs
- * schedule optimization
- * value engineering
- * orientation to success

SIZE OF FACILITY

250 sq. feet

NUMBER OF EMPLOYEES

1

ESTABLISHED

1986

SERVICES

DESIGN - OTHER

*manufacturability analysis/prod. methods

DOCUMENTATION SERVICES

*technical writing/manuals, etc.

Buckley Fraser Williams Inc.

**1075 BAY STREET
SUITE 220
TORONTO, ONTARIO
M5S 2B1**

**TELEPHONE
(416) 961-6926**

**CHIEF EXECUTIVE
NORMAN BUCKLEY**

**CONTACT
NORMAN BUCKLEY, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A computer consulting company offering system analysis, design, feasibility studies, technical consulting, project management systems, and programming; located in the Bay and Bloor area of downtown Toronto

MAJOR PRODUCTS & SERVICES

- * custom system development
- * contract systems analysis and programming
- * systems and technical consulting
- * maintenance
- * project management

**PARENT COMPANY
FRASER WILLIAMS GROUP LTD.**

**SIZE OF FACILITY
2,000 sq. feet**

**NUMBER OF EMPLOYEES
20**

**ESTABLISHED
1976**

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *communications
- *process control

Burndy Inc.

**245 RENFREW
MARKHAM, ONTARIO
L3R 6G3**

**TELEPHONE
(416) 940-7320**

**CHIEF EXECUTIVE
W. P. BUCKLEY**

**CONTACT
D. V. GOODRIDGE, MARKETING MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Designer and manufacturer of electronic connectors and compression lugs.

MAJOR PRODUCTS & SERVICES
* electronic connectors
* compression lugs and links
* nylon cable ties

**PARENT COMPANY
BURNDY CORP.**

SIZE OF FACILITY
60,000 sq. feet

ESTABLISHED
1949

SERVICES

ENGINEERING DESIGN
*mechanical design
*use of CAD in engineering design

DESIGN - OTHER
*packaging design

CIRCUIT BOARD DESIGN
*surface mounted devices

PLASTIC ENCLOSURES,PARTS,FIXTURES
*small parts

C-Tech Ltd.

P.O. BOX 1960
525 BOUNDARY ROAD
CORNWALL, ONTARIO
K6H 6N7

TELEPHONE
(613) 199-7970

CHIEF EXECUTIVE
HERBERT M. JOHNSON

CONTACT ¹²,
G. MCBRIDE, MARKETING MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Develop design and build commercial and military sonar equipment and underwater electroacoustic transducers. Design and manufacture SEM (USN) and do custom MIL SPEC electronic manufacture and test.

MAJOR PRODUCTS & SERVICES

- * commercial and military sonar systems
- * standard electronic modules (USN)
- * underwater electro-acoustic transducers
- * custom MIL SPEC assembly and test

AFFILIATE NAMES
C-TECH INC.

SIZE OF FACILITY
110,000 sq. feet

NUMBER OF EMPLOYEES
200

ESTABLISHED
1969

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *line width 10 mil or less

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *calibration services

CAD/CAM Graphics (1984) Limited

700 INDUSTRIAL AVENUE
OTTAWA, ONTARIO
K1G 0Y9

TELEPHONE
(613) 526-0620

CHIEF EXECUTIVE
A.H. JARVIS

CONTACT
A. H. JARVIS, PRESIDENT

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * PC board designs
- * software sales
- * hardware sales

AFFILIATE NAMES
CAD/CAM GRAPHICS INC.

SIZE OF FACILITY
5,500 sq. feet

NUMBER OF EMPLOYEES
25

ESTABLISHED
1984

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *simulation

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *prototyping

PCB ASSEMBLY

- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Cablecor Data Lines Limited

**18 RIVIERA DRIVE
MARKHAM, ONTARIO
L3R 5M1**

**TELEPHONE
(416) 477-4770**

**CHIEF EXECUTIVE
RICK FISCHER**

**CONTACT
ROY HOOD, DIVISION MANAGER**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * wire distribution panels
- * Coax Balun panels
- * Twinax wire concentrators
- * cable assemblies

**SIZE OF FACILITY
15,212 sq. feet**

**NUMBER OF EMPLOYEES
52**

**ESTABLISHED
1981**

SERVICES

DESIGN - OTHER
*enclosure design
*packaging design

PCB ASSEMBLY
*prototype quantities
*final assembly and wiring

PLASTIC ENCLOSURES,PARTS, FIXTURES
*small parts
*prototyping

Calmos Systems Inc.

**20 EDGEWATER STREET
KANATA, ONTARIO
K2L 1V8**

**TELEPHONE
(613) 836-1014**

**CHIEF EXECUTIVE
ADAM CHOWANIEC**

**CONTACT
S. HENTHORN, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Calmos designs, tests, assembles and qualifies semiconductor products in a facility in Kanata which includes clean-rooms.

MAJOR PRODUCTS & SERVICES

- * Integrated circuits
- * IC design
- * assembly & test
- * mil qualification services

SIZE OF FACILITY

20,000 sq. feet

NUMBER OF EMPLOYEES

55

ESTABLISHED

1983

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *simulation

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *surface mounted devices

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *full custom
- *prototyping

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities

ELECTRICAL TESTING SERVICES

- *integrated circuit testing
- *environmental and vibration testing

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Cameron Bates Microcomputer Software

**34 FULTON AVENUE
TORONTO, ONTARIO
M4K 1X5**

**TELEPHONE
(416) 423-0438**

**CHIEF EXECUTIVE
CAMERON BATES**

**CONTACT
CAMERON BATES**

COMPANY PROFILE

SUMMARY PROFILE
Freelance consultant operating at
customers' site or at home.

MAJOR PRODUCTS & SERVICES
* software design - distributed
real-time systems

SIZE OF FACILITY
200 sq. feet

NUMBER OF EMPLOYEES
1

ESTABLISHED
1987

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications
*communications
*process control

Camptech Circuits Inc.

**3241 KENNEDY ROAD
UNIT 12
SCARBOROUGH, ONTARIO
M1V 2J8**

**TELEPHONE
(416) 298-9974**

**CHIEF EXECUTIVE
P. A. CAMPANGA**

**CONTACT
FRANK DURIGON, V.P. SALES**

COMPANY PROFILE

SUMMARY PROFILE

Two facilities capable of handling 5 or 10 pcs. to 5K to 10K pcs. single sided simple print and etch to 12 layers fine lines of 006" and 007". Second plant located at 81 Bentley Street, Markham. Seven years young with the potential to have 150 people employed by the year 1990.

MAJOR PRODUCTS & SERVICES

- * printed circuits single
- * double sided multilayers to 12 layer

**SIZE OF FACILITY
25,000 sq. feet**

**NUMBER OF EMPLOYEES
86**

**ESTABLISHED
1980**

SERVICES

PCB MANUFACTURER

- *single sided / two sided
- *line width 10 mil or less
- *prototype development
- *electrical testing

ELECTRICAL TESTING SERVICES

- *integrated circuit testing

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export

Canadian Industrial Innovation Centre

**156 COLUMBIA STREET WEST
WATERLOO, ONTARIO
N2L 3L3**

**TELEPHONE
(519) 885-5870**

**CHIEF EXECUTIVE
DR. FRANK W. MAINE**

**CONTACT
GARY SVOBODA, MARKETING MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Objective is to commercialize technological innovation; the staff of 23 provides consulting service to inventors, researchers, entrepreneurs and companies anxious to bring proven processes and inventions from the test bench to full commercial production.

MAJOR PRODUCTS & SERVICES

- * contract design and development
- * technology market research
- * services for inventors
- * services for entrepreneurs

**SIZE OF FACILITY
9,000 sq. feet**

**NUMBER OF EMPLOYEES
23**

**ESTABLISHED
1981**

SERVICES

ENGINEERING DESIGN
*mechanical design
*mechanical analysis

DESIGN - OTHER
*manufacturability analysis/prod. methods

MARKET CONSULTING
*non-consumer market sizing - Canada
*non-consumer market sizing - export
*distributor network investigation
*physical distribution advice

Canadian Plastics Inc.

**21 SIX POINTS ROAD
TORONTO, ONTARIO
M8Z 2X1**

**TELEPHONE
(416) 231-9251**

**CHIEF EXECUTIVE
TED GOLDMAN**

**CONTACT
KEVIN ATKINSON, DIRECTOR MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

Capabilities in injection molding, compression molding, die casting, finishing and assembly of electronic devices. Current project is electric staple guns for consumer products company.

MAJOR PRODUCTS & SERVICES

- * apparel hangers
- * buttons (clothing)
- * custom molding
- * assembly contracts

**PARENT COMPANY
CANADIAN BUTTONS LIMITED**

**AFFILIATE NAMES
JOHN THOMAS BATTS**

**SIZE OF FACILITY
44,000 sq. feet**

**NUMBER OF EMPLOYEES
80**

**ESTABLISHED
1884**

SERVICES

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *special coating and shielding
- *approvals ie. CSA/UL

ELECTRICAL TESTING SERVICES

- *certification - UL
- *certification - CSA

Canadian Standards Association

178 REXDALE BOULEVARD
REXDALE, ONTARIO
M9W 1R3

TELEPHONE
(416) 747-4007

CHIEF EXECUTIVE
JOHN E. KEAN

CONTACT
DIRECTOR OF CUSTOMER SERVICES

COMPANY PROFILE

SUMMARY PROFILE

CSA and its volunteers develop standards through a consensus process. CSA tests and certifies products to many of these standards, which include electronic and electrical products

MAJOR PRODUCTS & SERVICES

* standard certification services over a wide range of products.

AFFILIATE NAMES

CANADIAN WELDING BUREAU
QUALITY MANAGEMENT INSTITUTE

NUMBER OF EMPLOYEES

900

ESTABLISHED

1919

SERVICES

ELECTRICAL TESTING SERVICES

*certification - CSA
*calibration services

DOCUMENTATION SERVICES

*technical writing/manuals, etc.

Capulum Cable Technologies Ltd.

**359 TERRY FOX DRIVE
KANATA, ONTARIO
K2K 2E7**

**TELEPHONE
(613) 591-8500**

**CHIEF EXECUTIVE
W.J. WOOD**

**CONTACT
R. WILLIAM BROTHERS, DIR. OF MARKETING**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*circuit simulations

METAL FABRICATION
*standard "off the shelf" enclosures
*large and/or custom enclosures & frames

ELECTRICAL TESTING SERVICES
*passive component testing

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* cable assemblies: RS232, DATA, IEEE,
ETHERNET
* data switches
* flat-ribbon cable assemblies
* telephone switchboard cable and wire
harnesses

SIZE OF FACILITY
9,000 sq. feet

NUMBER OF EMPLOYEES
40

ESTABLISHED
1984

Car-San Manufacturing Ltd.

**611 CONRAD PLACE
UNIT 3
WATERLOO, ONTARIO
N2V 1C4**

**TELEPHONE
(519) 885-0403**

**CHIEF EXECUTIVE
CLARENCE FRENCH**

**CONTACT
CLARENCE FRENCH, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * PCB assembly, wave soldering, cleaning and testing
- * PCB design and drawing
- * component procurement

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1985**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *wave soldering
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Carriere Technical Industries Inc.

**1229 LORIMAR DRIVE
MISSISSAUGA, ONTARIO
L5S 1R2**

**TELEPHONE
(416) 670-2930**

**CHIEF EXECUTIVE
P. HAMMETT**

**CONTACT
M. LUPYNEC, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

2 locations, (Mississauga & Scarborough). High level customer service and quality control programs.

MAJOR PRODUCTS & SERVICES

- * manufacture wire harnesses
- * electrical, electronic assembly
- * mechanical assembly
- * mechanical design and metal fabrication

**PARENT COMPANY
DERLAN INDUSTRIES LTD.**

**SIZE OF FACILITY
54,000 sq. feet**

**NUMBER OF EMPLOYEES
100**

**ESTABLISHED
1947**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*tool maker

PCB ASSEMBLY
*final assembly and wiring

METAL FABRICATION
*standard "off the shelf" enclosures
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds

Cash Mould & Castings Limited

**MALLARD ROAD
P.O. BOX 59
HYDE PARK, ONTARIO
N0M 1Z0**

**TELEPHONE
(519) 471-8827**

**CHIEF EXECUTIVE
FRANK CASH**

**CONTACT
CHRIS J. ARSCOTT, SALES MANAGER**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*tool maker
*packaging design

METAL FABRICATION
*aluminum parts and enclosures
*prototyping
*jigs/fixtures, tools/dies, molds

COMPANY PROFILE

SUMMARY PROFILE
Custom alloy castings specializing
in the graphite system.

MAJOR PRODUCTS & SERVICES
* low volume castings
* finish C.N.C. castings
* prototype castings

SIZE OF FACILITY
14,000 sq. feet

NUMBER OF EMPLOYEES
30

ESTABLISHED
1979

Cayuga Automatic Machining (1985) Ltd.

**83 SIX POINT ROAD
TORONTO, ONTARIO
M8Z 2X3**

**TELEPHONE
(416) 232-0210**

**CHIEF EXECUTIVE
BRUCE THOMSON**

**CONTACT
BRUCE THOMSON, PRESIDENT**

SERVICES

METAL FABRICATION

- *aluminum parts and enclosures**
- *prototyping**
- *long production runs**
- *jigs/fixtures, tools/dies, molds**

COMPANY PROFILE

SUMMARY PROFILE

Cayuga Automatic Machining produces precision components for the aerospace, military and telecommunications industries using the latest in CNC machine tools (lathes) and machining centres.

**SIZE OF FACILITY
8,000 sq. feet**

**NUMBER OF EMPLOYEES
25**

**ESTABLISHED
1985**

Cercor Inc.

**93 MOUNTAINVIEW ROAD
GEORGETOWN, ONTARIO
L7G 4J6**

**TELEPHONE
(416) 877-6936**

**CHIEF EXECUTIVE
BARRY HADLEY**

**CONTACT
JIM CHURCH, SALES MANAGER**

SERVICES

DESIGN - OTHER
*enclosure design

METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* non-ferrous investment castings

SIZE OF FACILITY
35,000 sq. feet

NUMBER OF EMPLOYEES
135

ESTABLISHED
1964

Certelec Com Laboratories Inc.

**3326 LIMEBANK ROAD
OTTAWA, ONTARIO
K1G 3N3**

**TELEPHONE
(613) 737-9680**

**CHIEF EXECUTIVE
HARRY B. DULMAGE**

**CONTACT
HARRY B. DULMAGE, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
Testing services for electronic products, to FCC, DOC, EIA, IEEE, JATE, UL\CSA, military, and other specifications.

MAJOR PRODUCTS & SERVICES
* qualification testing of telephone terminal
* EMI\EMC testing
* type approval testing
* environmental & safety

**PARENT COMPANY
HARRY DULMAGE ASSOCIATES LTD.**

**AFFILIATE NAMES
CERTELECOM LABORATORIES (U.S.) INC.**

**SIZE OF FACILITY
9,100 sq. feet**

**NUMBER OF EMPLOYEES
25**

**ESTABLISHED
1983**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*circuit simulations
*mechanical analysis
*use of CAD in engineering design

PLASTIC ENCLOSURES,PARTS, FIXTURES
*approvals ie. CSA/UL

ELECTRICAL TESTING SERVICES
*passive component testing
*electromagnetic characterization
*environmental and vibration testing
*certification - UL
*certification - CSA
*certification - DOC
*calibration services

**40 CONCOURSE GATE
NEPEAN, ONTARIO
K2E 8A6**

**TELEPHONE
(613) 723-7105**

**CHIEF EXECUTIVE
BRUCE LOVE**

**CONTACT
BRUCE LOVE, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Manufacturer of printed circuit boards.

**PARENT COMPANY
GANDALF**

SIZE OF FACILITY
18,000 sq. feet

NUMBER OF EMPLOYEES
40

ESTABLISHED
1974

SERVICES

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*prototype development
*electrical testing

ELECTRICAL TESTING SERVICES
*certification - UL

Circultron Inc.

**10 ASHWARREN ROAD
DOWNSVIEW, ONTARIO
M3J 1Z5**

**TELEPHONE
(416) 635-8813**

**CHIEF EXECUTIVE
M. SAPURGI**

**CONTACT
M. SAPURGI**

COMPANY PROFILE

**SUMMARY PROFILE
PCB operation.**

**SIZE OF FACILITY
6,000 sq. feet**

**NUMBER OF EMPLOYEES
12**

**ESTABLISHED
1965**

SERVICES

PCB MANUFACTURER

- *single sided / two sided**
- *multi-layer**
- *surface mounted devices**
- *line width 10 mil or less**
- *prototype development**
- *electrical testing**

Compas/Computer Assembly Systems Ltd.

**1245 CALIFORNIA AVENUE
BROCKVILLE, ONTARIO
K5V 5Y6**

**TELEPHONE
(613) 342-5041**

**CHIEF EXECUTIVE
BILL FRASER**

**CONTACT
JOHN STEWART, CDN. SALES REP.**

COMPANY PROFILE

SUMMARY PROFILE

A contract-assembly house that provides plated through-hole and surface-mount assembly services; the main office is in Brockville (Ont.), with a branch plant in Ogdensburg (U.S.)

MAJOR PRODUCTS & SERVICES

- * board assembly (through-hole and surface mount)
- * product design and redesign
- * component procurement
- * testing (in-circuit) and other facilities

AFFILIATE NAMES

COMPAS/AMERICAN COMPUTER ASSEMBLY INC.

SIZE OF FACILITY

55,000 sq. feet

NUMBER OF EMPLOYEES

750

ESTABLISHED

1973

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *environmental and vibration testing
- *certification - UL
- *certification - CSA

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Component Mate

1120 TAPSCOTT ROAD
UNIT 11
SCARBOROUGH, ONTARIO
M1X 1E8

TELEPHONE
(416) 754-0574

CHIEF EXECUTIVE
BRYAN D. GIDLEY

CONTACT
LARRY DEBONO, SALES MANAGER

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * assembly of printed circuit boards/through hole & surface mount
- * consulting services

SIZE OF FACILITY
3,500 sq. feet

NUMBER OF EMPLOYEES
9

ESTABLISHED
1980

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

Computech Micro Design

**7370 BRAMALEA ROAD
UNIT 8
MISSISSAUGA, ONTARIO
L5S 1N6**

**TELEPHONE
(416) 673-3300**

**CHIEF EXECUTIVE
RORY JAN**

**CONTACT
RORY JAN, OWNER**

COMPANY PROFILE

SUMMARY PROFILE

Facilities on hand for the design and testing of micro-based hardware and software, including in-house CAD stations and software-development aids; full hardware, prototyping and limited-run manufacturing services are offered

MAJOR PRODUCTS & SERVICES

- * custom design of microprocessor-based hardware and software
- * custom design of high-level software applications
- * consultation on the above

SIZE OF FACILITY

2,800 sq. feet

NUMBER OF EMPLOYEES

5

ESTABLISHED

1980

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *circuit simulations
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

PCB ASSEMBLY

- *prototype quantities

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Comtest Instruments Ltd.

**80 COLONNADE ROAD
NEPEAN, ONTARIO
K2E 7L2**

**TELEPHONE
(613) 226-2301**

**CHIEF EXECUTIVE
VICTOR BRAND**

**CONTACT
VICTOR BRAND, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
Head office & repair, design, CAD
facilities - 3 regional sales offices.

MAJOR PRODUCTS & SERVICES
* test instruments
* terminal equipment

SIZE OF FACILITY
10,000 sq. feet

NUMBER OF EMPLOYEES
19

ESTABLISHED
1972

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*process control

CIRCUIT BOARD DESIGN
*single sided / two sided
*line width 10 mil or less

ELECTRICAL TESTING SERVICES
*passive component testing
*integrated circuit testing

MARKET CONSULTING
*distributor network investigation

DOCUMENTATION SERVICES
*PC artwork service using CAD
*technical writing/manuals, etc.

Cowley Consultants Limited

4480 CHESSWOOD DRIVE
UNIT 5
DOWNSVIEW, ONTARIO
M3J 2B9

TELEPHONE
(416) 635-1678

CHIEF EXECUTIVE
JOHN JAMES COWLEY

CONTACT
J. J. COWLEY, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Development shop equipped with basic machine tools, work benches, etc.

MAJOR PRODUCTS & SERVICES

* 1984 to the present 80% of effort has gone into getting dormant in-house products to market

SIZE OF FACILITY

2,500 sq. feet

NUMBER OF EMPLOYEES

3

ESTABLISHED

1960

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *tool maker

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *prototyping
- *jigs and fixtures

METAL FABRICATION

- *prototyping

DOCUMENTATION SERVICES

- *photo tool manufacturing

Crest Circuit Inc.

690 PROGRESS AVENUE
UNIT 10
SCARBOROUGH, ONTARIO
M1H 3A6

TELEPHONE
(416) 439-9515

CHIEF EXECUTIVE
RASHMI PATEL

CONTACT
RASHMI PATEL

COMPANY PROFILE

SUMMARY PROFILE
15,000 sq. ft. capability to
manufacture single and double sided
printed boards. Prototype and volume.

MAJOR PRODUCTS & SERVICES
* printed circuit boards, design and
manufacturer
* single & double sided assembler

SIZE OF FACILITY
15,000 sq. feet

NUMBER OF EMPLOYEES
70

ESTABLISHED
1978

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*power supply design

DESIGN - OTHER
*tool maker

CIRCUIT BOARD DESIGN
*single sided / two sided
*surface mounted devices
*line width 10 mil or less

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*prototype development
*electrical testing

PCB ASSEMBLY
*automatic Insertion dips
*automatic Insertion axial
*wave soldering
*prototype quantities
*final assembly and wiring

ELECTRICAL TESTING SERVICES
*certification - UL

DOCUMENTATION SERVICES
*photo tool manufacturing

Crossbow Electronics Inc.

70 HUNTINGTON PARK DRIVE
THORNHILL, ONTARIO
L3T 7C1

TELEPHONE
(416) 889-1991

CHIEF EXECUTIVE
JOHN ERIKSEN

CONTACT
JOHN ERIKSEN, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Custom electronics, extensive CAD & test equipment, very- high speed signal/image processing multi-plane video displays.

MAJOR PRODUCTS & SERVICES

- * radar digital signal processor system
- * custom electronic hardware/software design (turnkey)
- * electronic engineering, consulting (military and commercial)
- * highspeed image processing and display

SIZE OF FACILITY
1,300 sq. feet

NUMBER OF EMPLOYEES
5

ESTABLISHED
1984

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *full custom
- *prototyping

PCB ASSEMBLY

- *programmable testing
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *prototyping

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Custom Components Manufacturing Co.

1960 ELLESMERE ROAD
UNIT 15
SCARBOROUGH, ONTARIO
M1H 2V9

TELEPHONE
(416) 439-0401

CHIEF EXECUTIVE
JULIUS HARANGOZO

CONTACT
JULIUS HARANGOZO, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Precision sheet-metal fabrication,
mostly on computer and other
electronic-component parts; does some
metalworking and assembly; no mil specs
at this time

SIZE OF FACILITY
3,000 sq. feet

NUMBER OF EMPLOYEES
3

ESTABLISHED
1979

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*packaging design

METAL FABRICATION
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds

Custom Plastics International Ltd.

887 D'ARCY STREET
BOX 52
COBOURG, ONTARIO
K9A 4K2

TELEPHONE
(416) 372-2281

CHIEF EXECUTIVE
W. H. GADD

CONTACT
W. H. GADD, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE
18 injection moulding machines 50 ton -
375 ton.

MAJOR PRODUCTS & SERVICES
* custom injection moulding & assembly

SIZE OF FACILITY
20,000 sq. feet

NUMBER OF EMPLOYFES
94

ESTABLISHED
1965

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*tool maker

IC DESIGN AND EVALUATION
*full custom

PLASTIC ENCLOSURES,PARTS,FIXTURES
*small parts
*prototyping
*long production runs

D. L. Custom (Div. 304260 Ontario Ltd.)

**7250 VICTORIA PARK
UNIT B
MARKHAM, ONTARIO
L3R 2M5**

**TELEPHONE
(416) 475-0275**

**CHIEF EXECUTIVE
LESLIE HULL, SR.**

**CONTACT
LESLIE HULL, JR., SALES**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * electronic cabinets, standard line of cabinets
- * E.M.I. R.F.I. cabinets
- * consoles desks
- * sheet metal work

**SIZE OF FACILITY
40,000 sq. feet**

**NUMBER OF EMPLOYEES
40**

**ESTABLISHED
1974**

SERVICES

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

D.G.A. Electronics Ltd.

**53 LAIRD DRIVE
TORONTO, ONTARIO
M4G 3T4**

**TELEPHONE
(416) 422-1036**

**CHIEF EXECUTIVE
DOUG ATKINSON**

**CONTACT
DOUG ATKINSON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A small engineering firm specializing in the custom design of microprocessor equipment; its one location has test and service equipment to ensure maintenance of products made from its designs

MAJOR PRODUCTS & SERVICES

- * custom design of electronic equipment, usually microprocessor-based

SIZE OF FACILITY
3,000 sq. feet

NUMBER OF EMPLOYEES
9

ESTABLISHED
1977

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer

PCB ASSEMBLY

- *prototype quantities

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Dahlstrom of Canada Limited

**7 COPELAND STREET
TORONTO, ONTARIO
M4G 3E7**

**TELEPHONE
(416) 421-5900**

**CHIEF EXECUTIVE
ANDRE HOLLO**

**CONTACT
ANDRE HOLLO, PRESIDENT & G.M.**

COMPANY PROFILE

SUMMARY PROFILE
Custom sheet-metal fabrication

MAJOR PRODUCTS & SERVICES
* electronic enclosures
* consoles
* cabinets

PARENT COMPANY
AARQUE COMPANIES

SIZE OF FACILITY
75,000 sq. feet

NUMBER OF EMPLOYEES
66

ESTABLISHED
1890

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design

METAL FABRICATION
*standard "off the shelf" enclosures
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding

Datasym Inc.

**P.O. BOX 2080
435 ELGIN STREET
BRANTFORD, ONTARIO
N3T 5Y6**

**TELEPHONE
(519) 758-5800**

**CHIEF EXECUTIVE
R. W. STERNE**

**CONTACT
R. W. STERNE, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Headquarters (design, assembly, administration, sales, marketing) Brantford, Ontario. Sales offices throughout U.S.A. U.S. distribution centre, Lewiston, New York.

MAJOR PRODUCTS & SERVICES

- * electronic circuit boards and cash registers
- * retail point-of-sale software
- * point-of-sale system peripheral devices

**SIZE OF FACILITY
18,000 sq. feet**

**NUMBER OF EMPLOYEES
55**

**ESTABLISHED
1984**

SERVICES

ENGINEERING DESIGN
*electronic circuit design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*communications

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB ASSEMBLY
*wave soldering
*final assembly and wiring

MARKET CONSULTING
*non-consumer market sizing - Canada
*non-consumer market sizing - export

Detronics Ltd.

**BLOOMINGTON ROAD
R.R. 4
STOUFFVILLE, ONTARIO
L4A 7X5**

**TELEPHONE
(416) 640-1216**

**CHIEF EXECUTIVE
R.J. DEBRUYN**

**CONTACT
R.J. DEBRUYN, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * electronic prototypes, analog PICO
100-AMP Herzian signals up to 200 MHZ
- * mechanical prototypes, special test
fixtures
- * lane control (portable), traffic
lights (P&T), arrow board controllers,
- * test equipment, communication
testers, control equipment

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
4**

**ESTABLISHED
1966**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design

DESIGN - OTHER

- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *process control

Diemaster Tool Inc.

**160 WATLINE AVENUE EAST
MISSISSAUGA, ONTARIO
L4Z 1R1**

**TELEPHONE
(416) 890-1144**

**CHIEF EXECUTIVE
GEORGE M. YUI**

**CONTACT
T. LUZOWSKIJ, TECHNICAL REPRESENTATIVE**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * precision machining of component parts
- * manufacture of gas-turbine engine shafts
- * CAD/CAM capabilities with mould-making software
- * design & building tools, dies, jigs, fixtures and special-purpose machines
- * electron beam (EB) welding service
- * custom design and build of EB weld machines

**SIZE OF FACILITY
66,000 sq. feet**

**NUMBER OF EMPLOYEES
140**

**ESTABLISHED
1972**

SERVICES

ENGINEERING DESIGN

- *electrical circuit design
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *tool maker

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *approvals ie. CSA/UL
- *jigs and fixtures

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

Digitrol Computers Inc.

**440 PHILLIP STREET
UNIT 9
WATERLOO, ONTARIO
N2L 5R9**

**TELEPHONE
(519) 884-4541**

**CHIEF EXECUTIVE
CHARLES SOOLEY**

**CONTACT
JIM SANDLAK, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Custom design of microprocessor based control products for industrial applications. Electronic assembly and wave soldering.

MAJOR PRODUCTS & SERVICES

- * computerized batching systems
- * factory automation
- * industrial control
- * custom hardware, software

SIZE OF FACILITY

4,800 sq. feet

NUMBER OF EMPLOYEES

20

ESTABLISHED

1979

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *power supply design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *wave soldering
- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Donmor Precision Limited

**1145 BELLAMY ROAD
UNIT 15
SCARBOROUGH, ONTARIO
M1H 1H5**

**TELEPHONE
(416) 438-6138**

**CHIEF EXECUTIVE
A.J. CORBETT**

**CONTACT
A.J. CORBETT, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Designers and builders of tools,
fixtures, jigs, and acceptance gauges.

**SIZE OF FACILITY
4,000 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1962**

SERVICES

**ENGINEERING DESIGN
*mechanical design**

**DESIGN - OTHER
*tool maker**

**PLASTIC ENCLOSURES,PARTS,FIXTURES
*jigs and fixtures**

**METAL FABRICATION
*prototyping
*jigs/fixtures, tools/dies, molds**

Doric Electronic Laboratories Ltd.

**800 ARROW ROAD
UNIT 17
WESTON, ONTARIO
M9M 2Z8**

**TELEPHONE
(416) 745-4850**

**CHIEF EXECUTIVE
KOSTA L. PELONIS**

**CONTACT
DAVID A. BLOIS, MANAGER**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*power supply design
*use of CAD in engineering design

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB ASSEMBLY
*wave soldering

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* electronic product design

AFFILIATE NAMES
PELKO ELECTRIC INC.

SIZE OF FACILITY
4,000 sq. feet

NUMBER OF EMPLOYEES
10

ESTABLISHED
1977

Dowty Canada Electronics Limited

**2000 FISHER DRIVE
PETERBOROUGH, ONTARIO
K9J 7B1**

**TELEPHONE
(705) 743-8903**

**CHIEF EXECUTIVE
C. KINGSTON**

**CONTACT
DAVID J. CROOK, GENERAL MANAGER**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * microprocessor-based control systems
- * aircraft steer-by-wire units
- * printed circuit board assemblies
- * electromechanical assemblies

**PARENT COMPANY
DOWTY CANADA LTD.**

**AFFILIATE NAMES
DOWTY CANADA LTD.
DOWTY AEROSPACE CORPORATION
DOWTY DECOTO INC.**

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
60**

**ESTABLISHED
1982**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *line width 10 mil or less

PCB ASSEMBLY

- *wave soldering
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing
- *certification - CSA

Dunlea Products Company Ltd.

**140 THE EAST MALL
TORONTO, ONTARIO
M8Z 5V5**

**TELEPHONE
(416) 232-0608**

**CHIEF EXECUTIVE
R.W. DUNCAN**

**CONTACT
G.H. KELLY, SALES ADMINISTRATOR**

COMPANY PROFILE

SUMMARY PROFILE

Specialists in fabrication and machining to customers' drawings and tolerances; plant is equipped with NC machines

MAJOR PRODUCTS & SERVICES

- * custom fabrication in plastics
- * custom machining in plastics and light metals

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
18**

**ESTABLISHED
1984**

SERVICES

PLASTIC ENCLOSURES,PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *jigs and fixtures

Dynamic & Proto Circuits Inc.

**9 PINELANDS AVENUE
STONEY CREEK, ONTARIO
L8E 3A4**

**TELEPHONE
(416) 662-2331**

**CHIEF EXECUTIVE
RALPH BRENNER**

**CONTACT
RALPH BRENNER, GENERAL MANAGER**

SERVICES

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film
- *prototype development
- *electrical testing

COMPANY PROFILE

SUMMARY PROFILE

New building, manufacture of high quality printed circuit boards, prototype and production runs.

MAJOR PRODUCTS & SERVICES

- * printed circuit boards

SIZE OF FACILITY

22,000 sq. feet

NUMBER OF EMPLOYEES

60

ESTABLISHED

1974

EMU Plastics Ltd.

**3420 PHARMACY AVENUE
UNIT 2
SCARBOROUGH, ONTARIO
M1W 2P7**

**TELEPHONE
(416) 498-5400**

**CHIEF EXECUTIVE
J. ANTOSZAK**

**CONTACT
R. PANDA, MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Services include Injection moulding, precision components, Insert moulding, hot stamping, heat sealing, sonic welding, painting and labelling, mould designing - as well as product engineering and mould design, all to custom specifications.

MAJOR PRODUCTS & SERVICES

- * automotive components
- * office products and housewares
- * office equipment and houseware components
- * electric and electronic plastic components

**SIZE OF FACILITY
34,356 sq. feet**

**NUMBER OF EMPLOYEES
85**

**ESTABLISHED
1964**

SERVICES

PLASTIC ENCLOSURES, PARTS, FIXTURES

- * large parts - housings, enclosures
- * small parts
- * prototyping
- * long production runs
- * special coating and shielding
- * approvals i.e. CSA/UL
- * jigs and fixtures

Eidetic Systems Corporation

P.O. BOX 13340
KANATA, ONTARIO
K2K 1X5

TELEPHONE
(613) 832-3755

CHIEF EXECUTIVE
E.A. TROMANHAUSER

CONTACT
E.A. TROMANHAUSER, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Software development, provide
manufacturing consulting services,
includes scheduling, estimating,
finance, order entry, MRP, simulation,
etc.

MAJOR PRODUCTS & SERVICES

- * management consulting
- * Integrated computer systems to
automate manufacturing operations
- * packaged software
- * project management

SIZE OF FACILITY
500 sq. feet

NUMBER OF EMPLOYEES
2

ESTABLISHED
1981

SERVICES

DESIGN - OTHER

*manufacturability analysis/prod. methods

DOCUMENTATION SERVICES

*technical writing/manuals, etc.

Electralogics Incorporated

905 GARTSHORE STREET
P.O. BOX 218
FERGUS, ONTARIO
N1M 2W8

TELEPHONE
(519) 843-6311

CHIEF EXECUTIVE

CONTACT
SHIRLEY HARNELL, VICE PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

A design and manufacturing facility specializing in micro-processor based products, both hardware and software; its capabilities allow it to take a product from the idea stage to full-scale production.

SIZE OF FACILITY
5,000 sq. feet

NUMBER OF EMPLOYEES
14

ESTABLISHED
1982

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices

PCB ASSEMBLY

- *wave soldering
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *prototyping

Electrohome Limited

809 WELLINGTON STREET NORTH
KITCHENER, ONTARIO
N2G 4J6

TELEPHONE
(519) 749-3184

CHIEF EXECUTIVE
JOHN A. POLLOCK

CONTACT
W. M. (MIKE) NOBBS, GROUP VICE PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Electronics; B&W & colour video displays; standard to high resolution CAD/CAM large-screen data & graphics projection systems; circuit-board operations; metal fabricating; subfractional AC & DC motors; furniture; Delcraft consumer and contract products; AABEX; consumer & commercial services; CAP; broadcasting. Planar Circuits, 25-27 Keefer Road, St. Catharines, Ont., L2M 7M7. Lightning Circuits, Victoria Street, Niagara-On-The-Lake, Ont., L0S 1J0.

PARENT COMPANY
ELECTROHOME

AFFILIATE NAMES
PLANAR CIRCUITS
LIGHTNING CIRCUITS

SIZE OF FACILITY
1,000,000 sq. feet

NUMBER OF EMPLOYEES
2,180

ESTABLISHED
1908

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film
- *prototype development
- *electrical testing

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities

METAL FABRICATION

- *aluminum parts and enclosures
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Electronic Metalform Industries Limited

**435 STEELCASE ROAD EAST
MARKHAM, ONTARIO
L3R 2M2**

**TELEPHONE
(416) 475-1217**

**CHIEF EXECUTIVE
G.E. MCCURDY**

**CONTACT
M. BRUNS, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Specialists in design, fabrication, finishing and assembly of all types of sheet-metal products. Facilities include NC fabrication, welding and deburring equipment, machine shop for tooling and making of jigs and fixtures, and (in a separate facility) industrial painting.

MAJOR PRODUCTS & SERVICES

* custom sheet metal fabrication
Including racks, brackets, frames, consoles and cabinets for the electronics industry.

AFFILIATE NAMES

C & K INDUSTRIAL PAINTING INC.
MCCURDY TELECOMMUNICATION PRODUCTS LTD.

**SIZE OF FACILITY
34,000 sq. feet**

**NUMBER OF EMPLOYEES
55**

**ESTABLISHED
1961**

SERVICES

ENGINEERING DESIGN
*mechanical design

METAL FABRICATION
*standard "off the shelf" enclosures
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - brake and form
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds

Euro Moulds Inc.

**1635 SISMET ROAD
UNIT 16 & 17
MISSISSAUGA, ONTARIO
L4W 1W5**

**TELEPHONE
(416) 624-7534**

**CHIEF EXECUTIVE
ALMIRO FONSECA**

**CONTACT
ALMIRO FONSECA, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A maker of moulds for the plastics industry, specializing in moulds for the computer and electronics industries

MAJOR PRODUCTS & SERVICES

- * moulds and dies
- * engineering

**PARENT COMPANY
ALTOR INDUSTRIES CORP.**

**SIZE OF FACILITY
5,000 sq. feet**

**NUMBER OF EMPLOYEES
16**

**ESTABLISHED
1983**

SERVICES

DESIGN - OTHER

- *enclosure design
- *tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *jigs and fixtures

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

Extrusion Plastics Inc.

**85 TORBAY ROAD
MARKHAM, ONTARIO
L3R 1G7**

**TELEPHONE
(416) 475-9550**

**CHIEF EXECUTIVE
B. J. FURLONG**

**CONTACT
B. J. FURLONG, PRESIDENT**

SERVICES

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures**
- *small parts**
- *prototyping**
- *long production runs**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * custom plastic profile extrusions**

**SIZE OF FACILITY
30,000 sq. feet**

**NUMBER OF EMPLOYEES
60**

**ESTABLISHED
1978**

F & H Plastics Ltd.

**29 FAULKLAND ROAD
SCARBOROUGH, ONTARIO
M1L 3S4**

**TELEPHONE
(416) 757-8229**

**CHIEF EXECUTIVE
JAMES FALLER**

**CONTACT
MICHAEL NEWMAN, SALES MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Maker of custom injection mouldings

MAJOR PRODUCTS & SERVICES

- * custom injection-moulding**
- * mould and tool design**

**SIZE OF FACILITY
5,200 sq. feet**

**NUMBER OF EMPLOYEES
36**

**ESTABLISHED
1962**

SERVICES

ENGINEERING DESIGN

- *mechanical design**
- *mechanical analysis**

DESIGN - OTHER

- *enclosure design**
- *manufacturability analysis/prod. methods**
- *tool maker**
- *packaging design**

IC DESIGN AND EVALUATION

- *full custom**
- *prototyping**

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *small parts**
- *prototyping**
- *long production runs**
- *approvals ie. CSA/UL**
- *jigs and fixtures**

FMS Engineering

**675C THE QUEENSWAY
PETERBOROUGH, ONTARIO
K9J 7J6**

**TELEPHONE
(705) 742-4583**

**CHIEF EXECUTIVE
JIM HALLS**

**CONTACT
JIM HALLS, OWNER MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Design, build and install automation systems for manufacturers. Feasibility studies, drafting and designing.

MAJOR PRODUCTS & SERVICES

- * designing
- * manufacturing
- * feasibility studies
- * engineering

SIZE OF FACILITY

1,000 sq. feet

NUMBER OF EMPLOYEES

3

ESTABLISHED

1985

SERVICES

ENGINEERING DESIGN

- *electrical circuit design
- *thermal design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *packaging design

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Fine Line Circuits Ltd.

**6530 LAWRENCE AVENUE EAST
SCARBOROUGH, ONTARIO
M1C 4A7**

**TELEPHONE
(416) 283-9560**

**CHIEF EXECUTIVE
GEORGE HITCHMAN**

**CONTACT
SHAFIQUE BUTT, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Manufacturer of double-sided and multi-layer PCBs for both the commercial and military markets.

MAJOR PRODUCTS & SERVICES

- * double-sided boards
- * multilayer
- * military double-sided boards
- * military multilayer

SIZE OF FACILITY

40,000 sq. feet

NUMBER OF EMPLOYEES

80

ESTABLISHED

1974

SERVICES

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *prototype development
- *electrical testing

Fishercast-Div. Fisher Gauge Ltd.

**P.O. BOX 179
194 SOPHIA STREET
PETERBOROUGH, ONTARIO
K9J 6Y9**

**TELEPHONE
(705) 748-9522**

CHIEF EXECUTIVE

**CONTACT
LARRY HATFIELD, SALES MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

2 facilities in Peterborough, Ont. and
1 facility in Watertown, NY producing
small zinc die castings.

MAJOR PRODUCTS & SERVICES

* small precise zinc alloy die castings

**PARENT COMPANY
FISHER GAUGE LTD.**

**SIZE OF FACILITY
96,000 sq. feet**

**NUMBER OF EMPLOYEES
250**

**ESTABLISHED
1942**

SERVICES

**DESIGN - OTHER
*tool maker**

**METAL FABRICATION
*parts - brake and form
*long production runs
*jigs/fixtures, tools/dies, molds**

G & J Electronics Inc.

**6 DORNFELL STREET
NORTH YORK, ONTARIO
M2R 2Y6**

**TELEPHONE
(416) 733-1963**

**CHIEF EXECUTIVE
SAM JUNDLER**

**CONTACT
SAM JUNDLER, PRESIDENT**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*circuit simulations
*use of CAD in engineering design

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB ASSEMBLY
*prototype quantities

COMPANY PROFILE

SUMMARY PROFILE

An electronics engineering firm specializing in the design of custom Analog and Digital circuits, for Industrial as well as biomedical applications.

MAJOR PRODUCTS & SERVICES

- * custom design analog and digital circuits
- * custom design microprocessor based devices
- * development of electronics for biomedical applications
- * prototype assembly

SIZE OF FACILITY
800 sq. feet

NUMBER OF EMPLOYEES
2

ESTABLISHED
1980

Garrett Canada

**255 ATTWELL DRIVE
REXDALE, ONTARIO
M9W 6L7**

**TELEPHONE
(416) 675-1411**

**CHIEF EXECUTIVE
W. C. TATE**

**CONTACT
O. F. EICHBERGER, MRKTG SERVICES**

COMPANY PROFILE

SUMMARY PROFILE

Manufacturing and engineering (and support facilities) specializing in advanced electronic controls, communications systems, and components for the world aerospace industry.

MAJOR PRODUCTS & SERVICES

- * aircraft electronic environmental control systems
- * communications products
- * subcontract/build to print services
- * MIL STD 1772 thin and thick film, hybrid microcircuits
- * engineering subcontracted services

**PARENT COMPANY
ALLIED-SIGNAL CANADA, INC.**

**SIZE OF FACILITY
248,000 sq. feet**

**NUMBER OF EMPLOYEES
1,024**

**ESTABLISHED
1952**

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

PCB ASSEMBLY

- *automatic insertion dips
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *electromagnetic characterization
- *environmental and vibration testing
- *certification - DOC
- *calibration services

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Genesis Microchip Inc.

**2900 JOHN STREET
MARKHAM, ONTARIO
L3R 5G3**

**TELEPHONE
(416) 470-2742**

**CHIEF EXECUTIVE
PAUL RUSSO**

**CONTACT
BILL WHITE, EXEC. VICE PRESIDENT**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *full custom
- *prototyping

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * application specific integrated circuit development

SIZE OF FACILITY

4,000 sq. feet

NUMBER OF EMPLOYEES

15

ESTABLISHED

1987

Gennum Corporation

**P. O. BOX 489
STATION A
970 FRASER DRIVE
BURLINGTON, ONTARIO
L7L 3X3**

**TELEPHONE
(416) 632-2996**

**CHIEF EXECUTIVE
DR. H. D. BARBER**

**CONTACT
R. G. SIMPSON, V.P. MKTING & PROD. DEV.**

COMPANY PROFILE

SUMMARY PROFILE

Gennum is a Canadian high technology company which designs and manufactures silicon ICs. Gennum has excellent capability in all aspects of design and production ranging from modern CAD tools through wafer fabrication to automated assembly and test.

MAJOR PRODUCTS & SERVICES

- * low voltage, low current systems for hearing instrument applications
- * dedicated ICs for video (broadcast) applications
- * user specific ICs and ASICs requiring specialized analog/ digital circuit functions
- * ICs for radiofrequency markets

**PARENT COMPANY
LINEAR TECHNOLOGY INC.**

**SIZE OF FACILITY
71,000 sq. feet**

**NUMBER OF EMPLOYEES
200**

**ESTABLISHED
1973**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *thermal design
- *circuit simulations
- *use of CAD in engineering design

DESIGN - OTHER

- *packaging design

IC DESIGN AND EVALUATION

- *gate arrays
- *full custom
- *prototyping

ELECTRICAL TESTING SERVICES

- *integrated circuit testing

DOCUMENTATION SERVICES

- *photo tool manufacturing

Gidden Morton Associates

7050 BRAMALEA ROAD
MISSISSAUGA, ONTARIO
L5S 1T1

TELEPHONE
(416) 671-8111

CHIEF EXECUTIVE
ROBERT A. GIDDEN

CONTACT
BOB GIDDEN, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE
A design centre for electronics
engineering

MAJOR PRODUCTS & SERVICES
* electronic-component selection service

SIZE OF FACILITY
4,000 sq. feet

NUMBER OF EMPLOYEES
16

ESTABLISHED
1982

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*power supply design
*circuit simulations
*use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications
*simulation

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*flexible boards
*polymer thick film
*thin film

IC DESIGN AND EVALUATION
*gate arrays
*standard cells
*full custom
*prototyping

PCB ASSEMBLY
*prototype quantities

MARKET CONSULTING
*distributor network investigation
*physical distribution advice

DOCUMENTATION SERVICES
*PC artwork service using CAD
*technical writing/manuals, etc.

Gidman Design Associates Ltd.

**55 MCCAUL STREET
P. O. BOX 283
TORONTO, ONTARIO
M5T 2W7**

**TELEPHONE
(416) 283-3003**

**CHIEF EXECUTIVE
CLAUDE J. GIDMAN**

**CONTACT
CLAUDE J. GIDMAN, PRESIDENT/DESIGN DIR.**

SERVICES

**DESIGN - OTHER
*Industrial design**

COMPANY PROFILE

SUMMARY PROFILE

Industrial design consulting
services/prototyping, model/ mock ups
produced.

MAJOR PRODUCTS & SERVICES

- * industrial design
- * model
- * mock up
- * prototyping

SIZE OF FACILITY

2,000 sq. feet

NUMBER OF EMPLOYEES

6

ESTABLISHED

1968

Goddu Systems Corp.

**1166 WHITEOAKS AVENUE
MISSISSAUGA, ONTARIO
L5J 3B5**

**TELEPHONE
(416) 823-2333**

**CHIEF EXECUTIVE
FRANCIS GODDU**

**CONTACT
FRANCIS GODDU, PRESIDENT**

COMPANY PROFILE

**SIZE OF FACILITY
1,000 sq. feet**

**NUMBER OF EMPLOYEES
1**

**ESTABLISHED
1977**

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Graphico Electronics Group

**1100 BELLAMY ROAD
SCARBOROUGH, ONTARIO
M1H 1H2**

**TELEPHONE
(416) 438-6076**

**CHIEF EXECUTIVE
D. MORGAN FIRESTONE**

**CONTACT
TOM IVASKIV, V.P. SALES**

COMPANY PROFILE

SUMMARY PROFILE

Design, prototype and production of
printed circuit boards -either
commercial or with military approval

MAJOR PRODUCTS & SERVICES

- * manufacture of printed circuit boards
- * prototype PCBs
- * edge lit panels for aircraft

**PARENT COMPANY
FIRAN CORPORATION**

AFFILIATE NAMES

**GRAPHICO PROTOTYPE
GRAPHICO SPACE CIRCUITS
GRAPHICO EDGELIT PANELS**

**SIZE OF FACILITY
90,000 sq. feet**

**NUMBER OF EMPLOYEES
240**

**ESTABLISHED
1960**

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

CIRCUIT BOARD DESIGN

- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards

PCB MANUFACTURER

- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *prototype development
- *electrical testing

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Guildline Instruments Ltd.

21 GILROY STREET
P.O. BOX 99
SMITHS FALLS, ONTARIO
K7A 4S9

TELEPHONE
(613) 283-3000

CHIEF EXECUTIVE
R. STEWART GRAHAM

CONTACT
J. ALLAN THOM, CONTROLLER

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * test & measuring equipment (metrology)
- * ocean products

PARENT COMPANY
GUILDLINE INTERNATIONAL INC.

SIZE OF FACILITY
23,000 sq. feet

NUMBER OF EMPLOYEES
51

ESTABLISHED
1957

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *line width 10 mil or less

IC DESIGN AND EVALUATION

- *gate arrays

ELECTRICAL TESTING SERVICES

- *calibration services

H & O Centerless Grinding Inc.

**45 BATHURST DRIVE
WATERLOO, ONTARIO
N2V 1N2**

**TELEPHONE
(519) 884-0322**

**CHIEF EXECUTIVE
TERRY HILLIER**

**CONTACT
TERRY HILLIER, QUALITY ASSURANCE**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * dowel pins, ODCO pins, pull dowels, taper pins
- * heat treating, milling, drilling, turning, grinding, deburring of small parts

**SIZE OF FACILITY
28,000 sq. feet**

**NUMBER OF EMPLOYEES
54**

**ESTABLISHED
1945**

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*process control

METAL FABRICATION
*aluminum parts and enclosures
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES
*certification - CSA

MARKET CONSULTING
*non-consumer market sizing - Canada

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

H. T. Watt & Associates Ltd.

**1245 CALIFORNIA AVENUE
BROCKVILLE, ONTARIO
K6V 5Y6**

**TELEPHONE
(613) 345-1199**

CHIEF EXECUTIVE

**CONTACT
DARCY ROBERTS, MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Lab operation in Brockville, Ontario on
same site as contract assembler
"computer assembly systems".

MAJOR PRODUCTS & SERVICES

- * point of sale equipment
- * temperature controllers
- * communication devices

AFFILIATE NAMES

COMPUTER ASSEMBLY SYSTEMS

SIZE OF FACILITY

1,200 sq. feet

NUMBER OF EMPLOYEES

3

ESTABLISHED

1983

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Halpen Engineering Inc.

**3397 AMERICAN DRIVE
MISSISSAUGA, ONTARIO
L4V 1T8**

**TELEPHONE
(416) 672-3838**

**CHIEF EXECUTIVE
ARTHUR S. HALPENNY**

**CONTACT
ARTHUR S. HALPENNY, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* cable harnesses
* control apparatus

**AFFILIATE NAMES
HALPEN ENGINEERING INC., N.Y.
DELAWARE CORPORATION**

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
15**

**ESTABLISHED
1971**

SERVICES

ENGINEERING DESIGN
*electrical circuit design

DESIGN - OTHER
*enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems

ELECTRICAL TESTING SERVICES
*integrated circuit testing

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Hamilton Avnet Electronics

6845 REXWOOD ROAD
UNITS 3-5
MISSISSAUGA, ONTARIO
L4V 1R2

TELEPHONE
(416) 677-7432

CHIEF EXECUTIVE
LEON NACHIZ

CONTACT
ANGELO DEL DUCA, MAN. CAN. ASIC OPER.

COMPANY PROFILE

SUMMARY PROFILE

Distribution of electronic components,
computers and ASIC consulting services.

MAJOR PRODUCTS & SERVICES

- * distribution of electronic components
and computers
- * ASIC (Application Specific Integrated
Circuit) consulting and design

PARENT COMPANY
AVNET INC.

AFFILIATE NAMES
TIME ELECTRONICS
HAMILTON AVNET COMPUTER

SIZE OF FACILITY
30,000 sq. feet

ESTABLISHED
1957

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *simulation

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *prototyping

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing

Hamilton Engraving Co. Ltd.

**P.O. BOX 181, STATION B
HAMILTON, ONTARIO
L8L 7V7**

**TELEPHONE
(416) 527-0718**

**CHIEF EXECUTIVE
ALEX A. PUERRER**

**CONTACT
ALEX A. PUERRER, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* single- and double-sided circuit
board design

SIZE OF FACILITY
16,000 sq. feet

NUMBER OF EMPLOYEES
12

ESTABLISHED
1958

SERVICES

ENGINEERING DESIGN
*electronic circuit design

CIRCUIT BOARD DESIGN
*single sided / two sided
*line width 10 mil or less

PCB MANUFACTURER
*single sided / two sided

ELECTRICAL TESTING SERVICES
*certification - UL

DOCUMENTATION SERVICES
*photo tool manufacturing

Harmic Design Div of Three Port Mfg Ltd.

**7015 TRANMERE DRIVE
UNIT 17
MISSISSAUGA, ONTARIO
L5S 1M2**

**TELEPHONE
(416) 677-1677**

**CHIEF EXECUTIVE
JOHN MIURA**

**CONTACT
RODNEY E. D'CROIX, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Equipment includes CAD for PCB design,
and wave soldering machine

MAJOR PRODUCTS & SERVICES

- * printed circuit board design
- * assembly of electronic equipment
- * design of electronic equipment

**SIZE OF FACILITY
3,700 sq. feet**

**NUMBER OF EMPLOYEES
18**

**ESTABLISHED
1975**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *power supply design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Harriann Industries Ltd.

**190 COLONNADE ROAD
NEPEAN, ONTARIO
K2E 7L5**

**TELEPHONE
(613) 727-0460**

**CHIEF EXECUTIVE
HARRY HARDGREAVES**

**CONTACT
JENNIFER CURRIE, MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Harriann has an office workshop, where testing and office service are carried out; an extra 1,700 sq ft is available when called for.

MAJOR PRODUCTS & SERVICES
* antennas
* multicouplers
* components and tube rebuilding
* HF equipment

SIZE OF FACILITY
2,400 sq. feet

NUMBER OF EMPLOYEES
5

ESTABLISHED
1974

SERVICES

MARKET CONSULTING
*distributor network investigation
*physical distribution advice

HI-Q.A. Inc.

1 SMYTHE STREET
INDUSTRIAL PARK
CARLETON PLACE, ONTARIO
K7C 4J4

TELEPHONE
(613) 257-2802

CHIEF EXECUTIVE

CONTACT
BARB ANGELL, GENERAL MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Custom electronic assembly, located in
industrial park in Carleton Place,
Ontario.

SIZE OF FACILITY
6,000 sq. feet

NUMBER OF EMPLOYEES
20

ESTABLISHED
1983

SERVICES

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

Horn Plastics Ltd.

**922 DILLINGHAM ROAD
PICKERING, ONTARIO
L1W 1Z6**

**TELEPHONE
(416) 839-4232**

**CHIEF EXECUTIVE
HORST A. HORNUNG**

**CONTACT
W.L. HARRY, V.P. FINANCE/MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

A manufacturer of injection-moulded plastic components, with the capability to design and produce custom moulds

MAJOR PRODUCTS & SERVICES

* plastic parts for business machines,
automobiles, defense,
telecommunications, and small appliances

AFFILIATE NAMES

D & E PRECISION TOOLING LTD.
HORNGO PLASTICS INC.
VALRO MACHINE INDUSTRIES LTD.
HORNUNG INVESTMENTS LTD.
NOVA WIRE EDM CORP.

SIZE OF FACILITY

25,000 sq. feet

NUMBER OF EMPLOYEES

92

ESTABLISHED

1979

SERVICES

ENGINEERING DESIGN

*mechanical design
*use of CAD in engineering design

DESIGN - OTHER

*tool maker

PLASTIC ENCLOSURES,PARTS, FIXTURES

*large parts - housings, enclosures
*small parts
*prototyping
*long production runs
*approvals ie. CSA/UL
*jigs and fixtures

Husky Injection Molding Systems Ltd.

530 QUEEN STREET SOUTH
BOLTON, ONTARIO
L7E 5S5

TELEPHONE
(416) 657-3240

CHIEF EXECUTIVE
ROBERT SCHAD

CONTACT
BRIAN GLUTEK, PRODUCT MANAGER

SERVICES

DESIGN - OTHER
*tool maker

COMPANY PROFILE

SUMMARY PROFILE

Husky is a supplier of molds, machines, hot runner components and product handling equipment for the injection molding industry.

MAJOR PRODUCTS & SERVICES

* manufacture of machines, molds, hot runners and product handling equipment systems to injection molding industry

SIZE OF FACILITY
200,000 sq. feet

NUMBER OF EMPLOYEES
800

ESTABLISHED
1953

ITL Circuits

**90 DON PARK ROAD
MARKHAM, ONTARIO
L3R 1C4**

**TELEPHONE
(416) 475-6658**

**CHIEF EXECUTIVE
C. WEBER**

**CONTACT
DERK WISSINK, MGR. SALES & MARKETING**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * printed circuit boards
- * multilayers
- * core boards
- * flex. boards
- * back panels

**SIZE OF FACILITY
40,000 sq. feet**

**NUMBER OF EMPLOYEES
85**

**ESTABLISHED
1972**

SERVICES

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *prototype development
- *electrical testing

Imago Manufacturing Limited

**1750 COURTWOOD CRESCENT
SUITE 300
OTTAWA, ONTARIO
K2C 2B5**

**TELEPHONE
(613) 226-7890**

**CHIEF EXECUTIVE
ROY BALL**

**CONTACT
ROY BALL, PRESIDENT**

SERVICES

ENGINEERING DESIGN
*electronic circuit design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications
*simulation

PCB ASSEMBLY
*prototype quantities
*final assembly and wiring

COMPANY PROFILE

SUMMARY PROFILE

An R & D company specializing in radar signal processing, image processing, machine vision and security sensors.

MAJOR PRODUCTS & SERVICES

- * IBM PC based image analysis product
- * security sensor test and evaluation equipment
- * contract research and software development

AFFILIATE NAMES

ROY BALL ASSOCIATES LTD.

SIZE OF FACILITY

3,000 sq. feet

NUMBER OF EMPLOYEES

10

ESTABLISHED

1987

Indal Technologies Inc.

**3570 HAWKESTONE ROAD
MISSISSAUGA, ONTARIO
L5C 2V8**

**TELEPHONE
(416) 275-5300**

**CHIEF EXECUTIVE
GARY R. RUTLEDGE**

**CONTACT
V. LACEY, DIRECTOR OF SALES**

COMPANY PROFILE

SUMMARY PROFILE

A diversified company that manufactures a wide range of handling systems and specialized structures for military and commercial applications. Indal has extensive experience in the design, subsystem manufacture and overall assembly of complex electro-hydraulic mechanical systems.

MAJOR PRODUCTS & SERVICES

- * handling systems
- * specialized structures

**PARENT COMPANY
INDAL LIMITED**

**SIZE OF FACILITY
160,000 sq. feet**

**NUMBER OF EMPLOYEES
300**

**ESTABLISHED
1951**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *process control

PCB ASSEMBLY

- *surface mount capability
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *jigs/fixtures, tools/dies, molds

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

International Epltek Inc.

**100 SCHNEIDER ROAD
KANATA, ONTARIO
K2K 1Y2**

**TELEPHONE
(613) 592-2240**

**CHIEF EXECUTIVE
ROBERT W. CORSON**

**CONTACT
ROBERT W. CORSON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A designer and manufacturer of hybrid microcircuits for the telecommunications, thick-film computer, and instrumentation industries

MAJOR PRODUCTS & SERVICES

- * thick-film hybrid microcircuits
- * design engineering
- * surface-mount technology
- * chip and wire assembly

**SIZE OF FACILITY
30,000 sq. feet**

**NUMBER OF EMPLOYEES
80**

**ESTABLISHED
1969**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *simulation
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

PCB ASSEMBLY

- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

J.J. Charlton Company Ltd.

**115 MILVAN DRIVE
WESTON, ONTARIO
M9L 1Z8**

**TELEPHONE
(416) 741-9030**

**CHIEF EXECUTIVE
JOHN A. CHARLTON**

**CONTACT
JOHN A. CHARLTON, PETER CLARK**

COMPANY PROFILE

SUMMARY PROFILE

Specialist in machining technology for
the electronic, aerospace, and defence
industries

MAJOR PRODUCTS & SERVICES

- * screw-machine products
- * CNC turning
- * CNC machining centre
- * centreless grinding, conventional and
diamond

AFFILIATE NAMES

CFN PRECISION INC.

SIZE OF FACILITY

23,000 sq. feet

NUMBER OF EMPLOYEES

50

ESTABLISHED

1947

SERVICES

METAL FABRICATION

- *standard "off the shelf" enclosures
- *aluminum parts and enclosures
- *prototyping
- *long production runs

**570 ALDEN ROAD
UNIT 5
MARKHAM, ONTARIO
L3R 8N5**

**TELEPHONE
(416) 470-7106**

**CHIEF EXECUTIVE
DR. STUART MAK**

**CONTACT
DR. STUART MAK, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A specialist in laser printing and
microcomputer design

MAJOR PRODUCTS & SERVICES

- * laser-printer products
- * microcomputer research & development
- * laser printer controller development

SIZE OF FACILITY

10,000 sq. feet

NUMBER OF EMPLOYEES

35

ESTABLISHED

1982

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

IC DESIGN AND EVALUATION

- *full custom

K & J Subassembly Co. Ltd.

**11 CORNWALL ROAD
BRAMPTON, ONTARIO
L6W 1M8**

**TELEPHONE
(416) 459-3054**

**CHIEF EXECUTIVE
KAREN WAINWRIGHT**

**CONTACT
KAREN WAINWRIGHT, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Both partners of this small company have been with Litton Industries for many years, and are experienced in assembly that meets military standards

MAJOR PRODUCTS & SERVICES

- * engineering change orders on printed circuit boards
- * ground straps for the communications industry
- * panel wiring on programmable controllers to the trade
- * hand assembly (on small quantities) of PCBs

**SIZE OF FACILITY
1,500 sq. feet**

**NUMBER OF EMPLOYEES
5**

**ESTABLISHED
1986**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB MANUFACTURER

- *single sided / two sided
- *prototype development

PCB ASSEMBLY

- *surface mount capability
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs

ELECTRICAL TESTING SERVICES

- *integrated circuit testing

DOCUMENTATION SERVICES

- *PC artwork service using CAD

KJ Marketing Services

**38 BELVIA ROAD
ETOBICOKE, ONTARIO
M8W 3R3**

**TELEPHONE
(416) 252-1061**

**CHIEF EXECUTIVE
KEITH C. CARROLL**

**CONTACT
KEITH C. CARROLL, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Custom assemblers and manufacturers of test equipment and test fixtures for the electronic industry; services include the custom assembly of electronic and mechanical assemblies

MAJOR PRODUCTS & SERVICES

- * fixtures: vacuum test, mechanical and pneumatic
- * custom assembly of electronic and mechanical units
- * ATE programming and consulting, & refurbishing, rental & leasing of same
- * fixture design
- * distributor for OSTB4-Barton, Everett-Charles & Factron testprobes
- * board testing

**SIZE OF FACILITY
7,500 sq. feet**

**NUMBER OF EMPLOYEES
28**

**ESTABLISHED
1982**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*process control

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB ASSEMBLY
*wave soldering
*final assembly and wiring

PLASTIC ENCLOSURES,PARTS,FIXTURES
*small parts
*prototyping
*approvals ie. CSA/UL
*jigs and fixtures

METAL FABRICATION
*standard "off the shelf" enclosures
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*parts - stamped/pressed
*parts - brake and form
*prototyping
*jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES
*integrated circuit testing

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Kan Act Ltd.

**60 LASKAY CRESCENT
DOWNSVIEW, ONTARIO
M3N 1P3**

**TELEPHONE
(416) 663-0221**

**CHIEF EXECUTIVE
KEN G. MACDONALD**

**CONTACT
KEN MACDONALD, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Electronics development, test & repair
lab, word processor & drafting facility.

MAJOR PRODUCTS & SERVICES

- * quality assurance MIL, AQAP, & CSA
custom manuals
- * electronic module test & repair
- * prototype design electronics short
run production
- * redesign of obsolete modules

SIZE OF FACILITY
500 sq. feet

NUMBER OF EMPLOYEES
1

ESTABLISHED
1976

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10-mil or less
- *flexible boards

PCB ASSEMBLY

- *programmable testing
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Keith Muller Limited

**56 THE ESPLANADE
SUITE 510
TORONTO, ONTARIO
M5E 1A7**

**TELEPHONE
(416) 362-6446**

**CHIEF EXECUTIVE
KEITH MULLER**

**CONTACT
KEITH MULLER**

SERVICES

**DESIGN - OTHER
*Industrial design**

COMPANY PROFILE

SUMMARY PROFILE

We have one location at 56 The Esplanade in Toronto. We are industrial designers & consultants specializing in environmental design, space planning & wayfinding, and health care design.

MAJOR PRODUCTS & SERVICES

- * environmental design - space planning and wayfinding
- * healthcare facilities - space planning and wayfinding
- * furniture design
- * product design and development

SIZE OF FACILITY

2,000 sq. feet

NUMBER OF EMPLOYEES

9

ESTABLISHED

1967

Knoch Manufacturing Co. Ltd.

**R.R. #1 SHAW ROAD
DORCHESTER, ONTARIO
N0L 1G0**

**TELEPHONE
(519) 268-7328**

**CHIEF EXECUTIVE
D. ASTIN**

**CONTACT
D. ASTIN, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Tool and die making; CNC machining;
manufacture of electronic test sets for
PCB's; manufacture and assembly of
electro mechanical components;
stamping; welding; protective
black-finish oxide treatment per G.M.
A.I.532 (similar to MIL-C-13924).

MAJOR PRODUCTS & SERVICES

* sub-contractor to major companies.

**SIZE OF FACILITY
34,000 sq. feet**

**NUMBER OF EMPLOYEES
70**

**ESTABLISHED
1967**

SERVICES

**DESIGN - OTHER
*tool maker**

**PLASTIC ENCLOSURES, PARTS, FIXTURES
*jigs and fixtures**

**METAL FABRICATION
*parts - stamped/pressed
*prototyping
*long production runs
*special coating and shielding
*jigs/fixtures, tools/dies, molds**

Knopafex Ltd.

1011 HAULTAIN COURT
UNIT 9
MISSISSAUGA, ONTARIO
L4W 1W1

TELEPHONE
(416) 238-9178

CHIEF EXECUTIVE
PHILIP ANDERSON

CONTACT
TAL AKERMANIS, VICE PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

CAD for mechanical, schematics, PCB routing & checking. Board assembly areas, lathe, drill press, etc. for mechanical work, microprocessor development systems: compilers, assemblers, simulators, emulators.

MAJOR PRODUCTS & SERVICES

- * line of cameras, controllers & accessories for pipeline video inspection, titling equipment
- * data acquisition equipment
- * engineering services
- * PCB design/layout, prototypes, small production runs, packaging

AFFILIATE NAMES

KNOPAFEX INC., 3033 INDUSTRIAL WAY N.E.,
SALEM, OR

SIZE OF FACILITY

2,500 sq. feet

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards

PCB ASSEMBLY

- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Kuypers Adamson Norton Ltd.

76 RICHMOND STREET EAST
TORONTO, ONTARIO
M5C 1P1

TELEPHONE
(416) 362-7737

CHIEF EXECUTIVE
JAN KUYPERS

CONTACT
IAN F. NORTON, DIRECTOR

COMPANY PROFILE

SUMMARY PROFILE

Industrial design studio with 3-D
modelling for development of low to
high tech products from concept through
to production.

SIZE OF FACILITY

3,200 sq. feet

NUMBER OF EMPLOYEES

7

ESTABLISHED

1963

SERVICES

ENGINEERING DESIGN

*mechanical design

DESIGN - OTHER

*enclosure design

*industrial design

PLASTIC ENCLOSURES,PARTS,FIXTURES

*prototyping

METAL FABRICATION

*prototyping

L & L Computer Systems Inc.

**ESSO PLACE
55 ST. CLAIR AVENUE WEST
SUITE 130
TORONTO, ONTARIO
M4V 2Y7**

**TELEPHONE
(416) 928-2334**

**CHIEF EXECUTIVE
LESLIE LEFKOWITZ**

**CONTACT
ANDREA LEFKOWITZ, VICE PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

2 offices - Toronto and Montreal.
Software development for Property &
Casualty Insurance Companies.
Consulting and training in Zim
application development.

MAJOR PRODUCTS & SERVICES

- * GIS - General Insurance System
- * consulting/training in ZIM

SIZE OF FACILITY

5,500 sq. feet

NUMBER OF EMPLOYEES

23

ESTABLISHED

1969

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications

LSI Logic Corporation of Canada Inc.

**10 FOUR SEASONS PLACE
SUITE 1100
TORONTO, ONTARIO
M9B 6H7**

**TELEPHONE
(416) 622-0403**

**CHIEF EXECUTIVE
PERRY CONSTANTINE**

**CONTACT
MURRAY KAIN, V.P. SALES**

SERVICES

ENGINEERING DESIGN
*circuit simulations

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*simulation

IC DESIGN AND EVALUATION
*gate arrays
*standard cells
*prototyping

COMPANY PROFILE

SUMMARY PROFILE

Provide design services, software and manufacturing of application specific Integrated circuits. Supply RISC microprocessors, PC chip sets and complete PC systems. Offices in Ottawa, Vancouver, Calgary, Edmonton, Toronto, Montreal, manufacturing in Edmonton.

MAJOR PRODUCTS & SERVICES

- * semi-custom integrated circuits (ASICs)
- * RISC microprocessors
- * PC chip sets and systems

PARENT COMPANY

LSI LOGIC CORPORATION

AFFILIATE NAMES

**LSI LOGIC JAPAN
LSI LOGIC EUROPE**

SIZE OF FACILITY

46,000 sq. feet

NUMBER OF EMPLOYEES

200

ESTABLISHED

1985

Lafontaine Consulting Services

300 GAGE AVENUE
UNIT 10
KITCHENER, ONTARIO
N2M 2C8

TELEPHONE
(519) 742-4146

CHIEF EXECUTIVE
MICHAEL LAFONTAINE

CONTACT
MICHAEL LAFONTAINE, PRESIDENT

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * qualification programs
- * reliability analysis
- * market analysis
- * technical manuals (mil & commercial)
- * calibration

SIZE OF FACILITY
400 sq. feet

NUMBER OF EMPLOYEES
3

ESTABLISHED
1988

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *use of CAD in engineering design

PCB MANUFACTURER

- *prototype development
- *electrical testing

ELECTRICAL TESTING SERVICES

- *environmental and vibration testing
- *calibration services

MARKET CONSULTING

- *non-consumer market sizing - Canada

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Lancom Technologies

**362 THE EAST MALL
SUITE 901
TORONTO, ONTARIO
M9B 6C4**

**TELEPHONE
(416) 626-5805**

**CHIEF EXECUTIVE
CLYDE BOOM**

**CONTACT
CLYDE BOOM, DIRECTOR**

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*communications

COMPANY PROFILE

SUMMARY PROFILE
Service organization providing
Installation and customization of local
area networks. Network and application
software training. Network
communications consulting.

MAJOR PRODUCTS & SERVICES
* local area network installation and
customization
* network software training
* PC application software training
* network communications consulting

SIZE OF FACILITY
1,000 sq. feet

NUMBER OF EMPLOYEES
2

ESTABLISHED
1987

Lazer-Tech Limited

**33 MELFORD DRIVE
SCARBOROUGH, ONTARIO
M1B 2G6**

**TELEPHONE
(416) 291-7727**

**CHIEF EXECUTIVE
KENNETH W. ARMITAGE**

**CONTACT
C.M. (CHRIS) ARCHER**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

*** printed circuit boards**

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
90**

**ESTABLISHED
1969**

SERVICES

ENGINEERING DESIGN

***electronic circuit design
*use of CAD in engineering design**

CIRCUIT BOARD DESIGN

***single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less**

PCB MANUFACTURER

***single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*prototype development
*electrical testing**

DOCUMENTATION SERVICES

***PC artwork service using CAD
*photo tool manufacturing**

Leecraft Industries Ltd.

**670 PROGRESS AVENUE
SCARBOROUGH, ONTARIO
M1H 3A4**

**TELEPHONE
(416) 439-8320**

**CHIEF EXECUTIVE
A. AINLAY**

**CONTACT
A. AINLAY, PRESIDENT**

COMPANY PROFILE

**MAJOR PRODUCTS & SERVICES
* electro-technical components**

**PARENT COMPANY
ARTAIN HOLDINGS INC.**

**AFFILIATE NAMES
C/D COMMUNICATION DEVICES INC.
ANRO ELECTRONIC INDUSTRIES LTD.**

**SIZE OF FACILITY
36,000 sq. feet**

**NUMBER OF EMPLOYEES
137**

**ESTABLISHED
1971**

SERVICES

**METAL FABRICATION
*parts - stamped/pressed
*jigs/fixtures, tools/dies, molds**

Leigh Instruments Ltd.

**260 HEARST WAY
KANATA SQUARE
KANATA, ONTARIO
K2L 3H1**

**TELEPHONE
(613) 591-3220**

**CHIEF EXECUTIVE
BARRY FLOWER**

**CONTACT
M. A. ROWLANDS, V.P. MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

Manufacturing facility - Carleton
Place, Ontario - 130,000 sq. ft.
Engineering facility - Ottawa, Ontario
- 23,000 sq. ft. Head office - Kanata,
Ontario - 10,000 sq. ft.

MAJOR PRODUCTS & SERVICES

- * TACAN: Tactical Air Navigation Beacon
- * SHINCOM: Shipboard Communications
System
- * Build to Print
- * Avionics & Quartz Crystal

**PARENT COMPANY
PLESSEY**

**SIZE OF FACILITY
163,000 sq. feet**

**NUMBER OF EMPLOYEES
900**

**ESTABLISHED
1961**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *thin film

IC DESIGN AND EVALUATION

- *gate arrays

Lightguide Systems Inc.

**148 STANLEY AVENUE
TORONTO, ONTARIO
M8V 1N9**

**TELEPHONE
(416) 255-3313**

**CHIEF EXECUTIVE
R.E. PARK**

**CONTACT
RANDALL PARK**

COMPANY PROFILE

SUMMARY PROFILE

A design and consulting company specializing in the application of optics and fibre optics to communications, process control and illumination systems, including microprocessor interfacing.

MAJOR PRODUCTS & SERVICES

- * design of fibre optics and optical products and assemblies
- * consulting on needs, sourcing, and markets
- * installation, testing, and prototyping of optical system
- * seminars on fibre optics

**SIZE OF FACILITY
400 sq. feet**

**NUMBER OF EMPLOYEES
2**

**ESTABLISHED
1985**

SERVICES

ENGINEERING DESIGN

- * electronic circuit design
- * electrical circuit design
- * use of CAD in engineering design

DESIGN - OTHER

- * enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- * real time applications
- * communications
- * process control

PCB ASSEMBLY

- * prototype quantities

MARKET CONSULTING

- * non-consumer market sizing - Canada
- * non-consumer market sizing - export

Linnell & Associates Ltd.

**50 GRAYDON HALL DRIVE
SUITE 209
DON MILLS, ONTARIO
M3A 3A3**

**TELEPHONE
(416) 391-2734**

**CHIEF EXECUTIVE
JOHN T. LINNELL**

**CONTACT
JOHN T. LINNELL, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Design & consulting industrial control & microcomputer systems. Using programmable controllers & microcomputers. Machine control design & programming. Trouble shooting & service on OMRON PLCs.

MAJOR PRODUCTS & SERVICES

- * design & programming
- * service

SIZE OF FACILITY

1,000 sq. feet

NUMBER OF EMPLOYEES

3

ESTABLISHED

1980

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

1031 HUBREY ROAD
UNIT 6
LONDON, ONTARIO
N6N 1B4

TELEPHONE
(519) 668-0512

CHIEF EXECUTIVE
RONALD E. BAKER

CONTACT
J. REG MACINTOSH, VICE-PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

On site design, test and manufacturing
with C.A.D. facilities.

MAJOR PRODUCTS & SERVICES

- * motion control electronics
- * data telecommunications
- * custom electronics
- * digitized voice process

AFFILIATE NAMES

LOKSEK ENGINEERING GROUP
LOKSEK MARKETING GROUP

SIZE OF FACILITY

3,000 sq. feet

NUMBER OF EMPLOYEES

11

ESTABLISHED

1985

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *line width 10 mil or less

PCB ASSEMBLY

- *automatic insertion axial
- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *prototyping
- *long production runs

DOCUMENTATION SERVICES

- *PC artwork service using CAD

MNG Plastics Ltd.

**P.O. BOX 699
RENFREW, ONTARIO
K7V 2M8**

**TELEPHONE
(613) 432-4296**

**CHIEF EXECUTIVE
NEIL RICHARDSON**

**CONTACT
NEIL RICHARDSON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A manufacturer of moulded
fibreglass-reinforced polyester products

MAJOR PRODUCTS & SERVICES

- * cold-press moulded fibreglass
computer and terminal housings
- * cold-press moulded radomes
- * modular-insulated radio frequency
equipment shelters
- * hand lay-up fibreglass antenna covers

**SIZE OF FACILITY
7,000 sq. feet**

**NUMBER OF EMPLOYEES
12**

**ESTABLISHED
1978**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*tool maker
*packaging design

PLASTIC ENCLOSURES, PARTS, FIXTURES
*large parts - housings, enclosures
*prototyping
*long production runs
*special coating and shielding
*jigs and fixtures

MPC Circuits Inc.

**25 CAPITAL DRIVE
NEPEAN, ONTARIO
K2G 0E7**

**TELEPHONE
(613) 224-5060**

CHIEF EXECUTIVE

**CONTACT
PERRY PEZOULAS, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* manufacturers of printed circuits

SIZE OF FACILITY
5,000 sq. feet

NUMBER OF EMPLOYEES
18

ESTABLISHED
1984

SERVICES

ENGINEERING DESIGN
*mechanical design

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*flexible boards
*polymer thick film
*prototype development
*electrical testing

PCB ASSEMBLY
*prototype quantities

ELECTRICAL TESTING SERVICES
*certification - UL

DOCUMENTATION SERVICES
*photo tool manufacturing

Main Prototypes Ltd.

**15 RAGLIN PLACE
CAMBRIDGE, ONTARIO
N1R 7J2**

**TELEPHONE
(519) 622-2291**

**CHIEF EXECUTIVE
DAVID MAIN**

**CONTACT
DAVID MAIN, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Specialists in prototype and product development, and low-volume runs

MAJOR PRODUCTS & SERVICES

- * fabricate, machine, mould, plastics and urethanes
- * manufacture prototype tools and moulds; brass, epoxy, aluminum, RTV rubber and steel
- * thermoform superplastic zinc sheet
- * fabricate, form, and stamp, machine metal prototypes

**SIZE OF FACILITY
13,000 sq. feet**

**NUMBER OF EMPLOYEES
21**

**ESTABLISHED
1967**

SERVICES

**ENGINEERING DESIGN
*mechanical design**

**DESIGN - OTHER
*tool maker
*packaging design**

**PLASTIC ENCLOSURES, PARTS, FIXTURES
*large parts - housings, enclosures
*small parts
*prototyping
*jigs and fixtures**

**METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*parts - stamped/pressed
*parts - brake and form
*prototyping
*special coating and shielding
*jigs/fixtures, tools/dies, molds**

Marstech Ltd.

**6793 STEELES AVENUE WEST
REXDALE, ONTARIO
M9V 4R9**

**TELEPHONE
(416) 746-2671**

**CHIEF EXECUTIVE
ROBERT MARSHALL**

**CONTACT
ROBERT MARSHALL, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
Provides engineering and laboratory services to manufacturers and distributors for them to obtain CSA, UL, DOC, FCC approvals; Marstech's laboratory is accredited by the Standards Council of Canada to meet certain CSA and DOC standards.

MAJOR PRODUCTS & SERVICES
* CSA certification
* DOC certification
* provincial inspection acceptance
* FCC certification
* UL certification
* environmental and vibration
* EMI

SIZE OF FACILITY
7,500 sq. feet

NUMBER OF EMPLOYEES
12

ESTABLISHED
1976

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*power supply design
*circuit simulations

ELECTRICAL TESTING SERVICES
*electromagnetic characterization
*environmental and vibration testing
*certification - UL
*certification - CSA
*certification - DOC

Matrix Systems Ltd.

**75 DENISON STREET
MARKHAM, ONTARIO
L3R 1B5**

**TELEPHONE
(416) 477-4442**

**CHIEF EXECUTIVE
ALLAN GUTTMAN**

**CONTACT
ALLAN GUTTMAN, PRESIDENT**

SERVICES

PCB ASSEMBLY
*final assembly and wiring

PLASTIC ENCLOSURES,PARTS,FIXTURES
*large parts - housings, enclosures

METAL FABRICATION
*standard "off the shelf" enclosures

COMPANY PROFILE

**AFFILIATE NAMES
MATRIX TECHNOLOGY LTD.**

**SIZE OF FACILITY
10,000 sq. feet**

**NUMBER OF EMPLOYEES
15**

**ESTABLISHED
1977**

Metaplast Circuits Limited

180 HYMUS ROAD
SCARBOROUGH, ONTARIO
M1L 2E1

TELEPHONE
(416) 285-5000

CHIEF EXECUTIVE
VIC JAGDEO

CONTACT
VIC JAGDEO, PRESIDENT

COMPANY PROFILE

SIZE OF FACILITY
14,000 sq. feet

NUMBER OF EMPLOYEES
35

ESTABLISHED
1967

SERVICES

DESIGN - OTHER
*manufacturability analysis/prod. methods

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*flexible boards
*prototype development
*electrical testing

Microart Services Inc.

**3261 KENNEDY ROAD
UNIT 7
SCARBOROUGH, ONTARIO
M1V 2K1**

**TELEPHONE
(416) 298-4611**

**CHIEF EXECUTIVE
HERB RATCHFORD**

**CONTACT
HERB RATCHFORD, DIRECTOR**

COMPANY PROFILE

SUMMARY PROFILE

Operational 24 hours/day. Printed circuit board layouts, computer aided design, schematic capture, digitizing, photoplotting.

MAJOR PRODUCTS & SERVICES

- * printed circuit design-CAD
- * schematic capture
- * digitizing and photoplotting
- * proto-type board service

**SIZE OF FACILITY
5,000 sq. feet**

**NUMBER OF EMPLOYEES
20**

**ESTABLISHED
1981**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Microset

**421 NUGGET AVENUE
UNIT 1
SCARBOROUGH, ONTARIO
M1S 4L8**

**TELEPHONE
(416) 288-1333**

**CHIEF EXECUTIVE
FRANK KAUFMAN**

**CONTACT
FRANK KAUFMAN, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* broadcast communications system
* microcomputer systems: sales & service
* factory automation interfacing

**SIZE OF FACILITY
2,000 sq. feet**

**NUMBER OF EMPLOYEES
6**

**ESTABLISHED
1979**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*circuit simulations
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications
*simulation
*communications
*process control

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*surface mounted devices

DOCUMENTATION SERVICES
*PC artwork service using CAD
*technical writing/manuals, etc.

Microtel Ltd.

100 STROWGER BOULEVARD
BROCKVILLE, ONTARIO
K6V 5W8

TELEPHONE
(613) 342-6621

CHIEF EXECUTIVE
ROBERT ALEXANDER

CONTACT
BEN TEKAMP, MKTG & SALES MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Manutronics Division is a vertically
Integrated military contract
manufacturer - supporting both U.S.,
Canadian & government defense contracts.

MAJOR PRODUCTS & SERVICES

- * system & sub-system assembly & test
- * backplane wiring, assembly & test
- * cable harness

PARENT COMPANY
B.C. TELEPHONE

SIZE OF FACILITY
500,000 sq. feet

NUMBER OF EMPLOYEES
100

ESTABLISHED
1953

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *line width 10 mil or less

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *prototype development
- *electrical testing

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *standard "off the shelf" enclosures
- *parts - stamped/pressed
- *parts - brake and form
- *long production runs
- *jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing
- *certification - UL
- *certification - CSA
- *certification - DOC
- *calibration services

Mitchell Plastics Ltd.

**11 HOFFMAN STREET
KITCHENER, ONTARIO
N2M 3M5**

**TELEPHONE
(519) 744-4197**

**CHIEF EXECUTIVE
M. E. ARISS**

**CONTACT
M. E. ARISS, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

In our two Kitchener plants we
Injection mould components for many
Industries, especially business
machines and automotive.

**SIZE OF FACILITY
60,000 sq. feet**

**NUMBER OF EMPLOYEES
100**

**ESTABLISHED
1915**

SERVICES

PLASTIC ENCLOSURES,PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *long production runs
- *jigs and fixtures

Moldcraft Plastics Ltd.

**362 SILVERCREEK PARKWAY
GUELPH, ONTARIO
N1H 6N3**

**TELEPHONE
(519) 821-2340**

**CHIEF EXECUTIVE
K. ROBERT WHITE**

**CONTACT
DAVID KNAPP, MGR. ENGINEERING SERVICES**

COMPANY PROFILE

SUMMARY PROFILE

Compression, transfer and injection-moulded precision engineered plastic parts for electronic/electrical, military /defence, computer, transportation industries to AQAP-1 / MIL/Q-9858A quality capabilities.

MAJOR PRODUCTS & SERVICES

- * custom moulding thermoplastic structural foam precision engineered plastic parts
- * custom moulding thermoset precision engineered plastic parts including Insert moulding of metal inserts

**SIZE OF FACILITY
28,000 sq. feet**

**NUMBER OF EMPLOYEES
100**

**ESTABLISHED
1968**

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs and fixtures

Morton Knecht & Associates

**312 DOLOMITE DRIVE
SUITE 208
DOWNSVIEW, ONTARIO
M3J 2N2**

**TELEPHONE
(416) 663-5015**

**CHIEF EXECUTIVE
MORTON KNECHT**

**CONTACT
MORTON KNECHT, MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Specialists in machine and tool design

MAJOR PRODUCTS & SERVICES

- * tool design
- * machine design
- * process planning
- * plant layouts

SIZE OF FACILITY
1,600 sq. feet

NUMBER OF EMPLOYEES
8

ESTABLISHED
1963

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*tool maker
*packaging design

PLASTIC ENCLOSURES, PARTS, FIXTURES
*jigs and fixtures

METAL FABRICATION
*jigs/fixtures, tools/dies, molds

Motorola Ltd. Semiconductor Division

**4000 VICTORIA PARK AVENUE
NORTH YORK, ONTARIO
M2H 3P4**

**TELEPHONE
(416) 497-8181**

**CHIEF EXECUTIVE
ERIC TAYLOR**

**CONTACT
ERIC TAYLOR, REGIONAL DIRECTOR**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *full custom
- *prototyping

COMPANY PROFILE

SUMMARY PROFILE

Sales and applications engineers, with head office in North York (Toronto area) and sales offices in Ottawa, Montreal, and Vancouver. ASIC design services, semiconductor product sales and distribution.

MAJOR PRODUCTS & SERVICES

- * broad line semiconductors including discrete devices, logic, power, microprocessor, telecom
- * microprocessor development systems, software
- * ASIC gate arrays, standard cells
- * full custom I.C.'s

**PARENT COMPANY
MOTOROLA INC.**

**SIZE OF FACILITY
24,000 sq. feet**

**NUMBER OF EMPLOYEES
45**

**ESTABLISHED
1930**

Multitest Electronics

226 ESNA PARK DRIVE
UNIT 3
MARKHAM, ONTARIO
L3R 1H3

TELEPHONE
(416) 665-6047

CHIEF EXECUTIVE
FRED HOESEL

CONTACT
STEVE GURR, SALES MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Four services are offered: design of electronic systems, calibration, repair and sales

MAJOR PRODUCTS & SERVICES

- * instrumentation equipment
- * calibration service
- * repair service
- * data acquisition equipment

SIZE OF FACILITY

3,700 sq. feet

NUMBER OF EMPLOYEES

15

ESTABLISHED

1985

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis

DESIGN - OTHER

- *tool maker

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *simulation
- *process control

ELECTRICAL TESTING SERVICES

- *integrated circuit testing
- *environmental and vibration testing

MARKET CONSULTING

- *physical distribution advice

NVF Industries of Canada Ltd.

10 MCLACHLAN DRIVE
REXDALE, ONTARIO
M9W 1E3

TELEPHONE
(416) 675-6323

CHIEF EXECUTIVE
R.L. HASKELL

CONTACT
J. BROWN

COMPANY PROFILE

SUMMARY PROFILE

1 plant. Warehouse/fabrication
operation, punch presses, lathe, drill;
mould poly containers.

MAJOR PRODUCTS & SERVICES

- * high pressure laminates sheets/tubes
& fab
- * copper clad laminates sheets/panels
- * glass mat/polyester resin sheet & fab
- * rotation mould poly units, fab, fibre
and metal containers

PARENT COMPANY
NVF CO.

SIZE OF FACILITY
41,000 sq. feet

NUMBER OF EMPLOYEES
27

ESTABLISHED
1927

SERVICES

DESIGN - OTHER

- *tool maker
- *packaging design

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *special coating and shielding
- *approvals ie. CSA/UL
- *jigs and fixtures

NW Clayton Limited

**194 SPEEDVALE AVENUE WEST
GUELPH, ONTARIO
N1H 1C3**

**TELEPHONE
(519) 824-7653**

**CHIEF EXECUTIVE
NEWTON W. CLAYTON**

**CONTACT
GEORGE LOWRY, V.P. MANUFACTURING**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

*** metal fabricated components from
light gauge to 1/2 " plate and
stampings.**

**SIZE OF FACILITY
40,000 sq. feet**

**NUMBER OF EMPLOYEES
65**

**ESTABLISHED
1953**

SERVICES

METAL FABRICATION

***aluminum parts and enclosures
*parts - stamped/pressed
*parts - brake and form
*long production runs**

National Engineering & Science Assoc.'s

P.O. BOX 1
367 WATER STREET
STRATFORD, ONTARIO
N5A 6S8

TELEPHONE
(519) 271-6710

CHIEF EXECUTIVE
E.J. SANDON COX

CONTACT
KATHLEEN ENGBERG, DIR. OF MARKETING

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * custom electronic cabinetry (metal)
- * internal components for above
- * prototyping and design of electronic cabinetry including design for EMI
- * repackaging electronic systems to military standards

SIZE OF FACILITY
27,000 sq. feet

NUMBER OF EMPLOYEES
20

SERVICES

ENGINEERING DESIGN

- *thermal design
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES

- *electromagnetic characterization

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

National Semiconductor Canada Ltd.

**5925 AIRPORT ROAD
SUITE 112
MISSISSAUGA, ONTARIO
L4V 1W1**

**TELEPHONE
(416) 678-2597**

CHIEF EXECUTIVE

**CONTACT
PAUL FILANOWSKI, DESIGN CENTRE MANAGER**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *circuit simulations
- *use of CAD in engineering design

IC DESIGN AND EVALUATION

- *gate arrays
- *standard cells
- *prototyping

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * ASIC's (Application Specific Integrated Circuits)
- * gate arrays
- * standard cells

**SIZE OF FACILITY
5,000 sq. feet**

**NUMBER OF EMPLOYEES
25**

**ESTABLISHED
1959**

Nelson Industrial Fabricating Ltd.

**1155 SQUIRES BEACH ROAD
PICKERING, ONTARIO
L1W 3S1**

**TELEPHONE
(416) 428-2240**

**CHIEF EXECUTIVE
PAUL NELSON**

**CONTACT
JOHN DAVIES, SALES MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Custom sheet metal fabrication in steel
stainless and aluminum, painting,
anodizing and alodine.

MAJOR PRODUCTS & SERVICES

- * commercial sheet metal fabrication
- * electronic sheet metal fabrication
- * painting and finishing

**SIZE OF FACILITY
60,000 sq. feet**

**NUMBER OF EMPLOYEES
75**

**ESTABLISHED
1973**

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

Niva Inc.

**180 ELGIN STREET
SUITE 800
OTTAWA, ONTARIO
K2P 2K3**

**TELEPHONE
(613) 594-9111**

**CHIEF EXECUTIVE
JOHN NIHMEY**

**CONTACT
LENORE EDMOND, GENERAL MANAGER**

SERVICES

**DOCUMENTATION SERVICES
*technical writing/manuals, etc.**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * technical writing**
- * graphics**
- * electronic publishing**
- * documentation procedures**
- * publications**
- * document planning & analysis**

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
15**

**ESTABLISHED
1978**

North Bay Plastic Molders Ltd.

**P.O. BOX 69
CORBEIL, ONTARIO
P0H 1K0**

**TELEPHONE
(705) 752-2964**

**CHIEF EXECUTIVE
DONALD CHAMPAGNE**

**CONTACT
DONALD CHAMPAGNE, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A company with new equipment;
manufactures moulded products to meet
OEM standards.

MAJOR PRODUCTS & SERVICES

- * plastic fittings for natural gas distribution
- * plastic electrical appliance components
- * plastic components for automotive and recreation
- * plastic components for the mining industry
- * plastic welding

**SIZE OF FACILITY
4,000 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1985**

SERVICES

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *approvals ie. CSA/UL
- *jigs and fixtures

Norwich Duff and Associates, Inc.

**354 KING STREET EAST
TORONTO, ONTARIO
M5A 1K9**

**TELEPHONE
(416) 865-1616**

**CHIEF EXECUTIVE
NORWICH DUFF**

**CONTACT
NORWICH DUFF, PRESIDENT**

SERVICES

DESIGN - OTHER

*manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

*real time applications

*simulation

*communications

*process control

COMPANY PROFILE

SUMMARY PROFILE

Downtown Toronto office has 16 (IBM PC/AT and Compaq 386) computers in an IBM token ring network. Services include custom software, with emphasis on manufacturing and distribution, R&D, education and consultation

MAJOR PRODUCTS & SERVICES

- * custom software on microcomputers
- * just-in-time manufacturing of software, integrated with sales
- * order entry & accounting customized to users' requirements
- * system analysis, design and consulting on microcomputers
- * executive level computer training

AFFILIATE NAMES

JUST-IN-TIME SOFTWARE INC.

SIZE OF FACILITY

2,800 sq. feet

NUMBER OF EMPLOYEES

20

ESTABLISHED

1981

Nyab Vicom, A Division of General Signal

**675 DEVELOPMENT DRIVE
KINGSTON, ONTARIO
K7M 4W6**

**TELEPHONE
(613) 389-4660**

**CHIEF EXECUTIVE
MARSHALL G. BECK**

**CONTACT
R. KOHAR, MANAGER MANUFACTURING**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * transportation
- * filament fibre
- * durable goods
- * aerospace

**PARENT COMPANY
GENERAL SIGNAL**

**SIZE OF FACILITY
35,000 sq. feet**

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

PCB ASSEMBLY

- *final assembly and wiring

METAL FABRICATION

- *aluminum parts and enclosures
- *parts - stamped/pressed
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

OCM Technology Inc.

**30 COLONNADE ROAD
NEPEAN, ONTARIO
K2E 7J6**

**TELEPHONE
(613) 723-7499**

**CHIEF EXECUTIVE
MICHEL JULLIAN**

**CONTACT
MICHEL JULLIAN, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

OCM Technology Inc. has a fully equipped electronics lab facility in Nepean and is a contract R&D company specializing in Microcomputer based product development and pilot manufacturer.

**SIZE OF FACILITY
3,000 sq. feet**

**NUMBER OF EMPLOYEES
7**

**ESTABLISHED
1988**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

PCB ASSEMBLY

- *prototype quantities
- *final assembly and wiring

OEM Electronic Components Ltd.

**27 NORTHSIDE ROAD
NEPEAN, ONTARIO
K2H 8S1**

**TELEPHONE
(613) 822-8225**

**CHIEF EXECUTIVE
DOUGLAS A. MACNAB**

**CONTACT
DOUGLAS A. MACNAB, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
OEM specializes in the manufacture of
PCBs, and using the latest equipment.

SIZE OF FACILITY
32,000 sq. feet

NUMBER OF EMPLOYEES
38

ESTABLISHED
1980

SERVICES

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*flexible boards

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*line width 10 mil or less
*flexible boards
*prototype development
*electrical testing

PCB ASSEMBLY
*prototype quantities

ELECTRICAL TESTING SERVICES
*certification - UL

DOCUMENTATION SERVICES
*PC artwork service using CAD
*photo tool manufacturing

Ontario Centre for Advanced Mfg. (OCAM)

**400 COLLIER-MACMILLAN DRIVE
CAMBRIDGE, ONTARIO
N1R 7H7**

**TELEPHONE
(519) 622-3609**

**CHIEF EXECUTIVE
KEN JONES**

**CONTACT
TONY SPOORE, BUSINESS DEVELOPMENT MGR.**

SERVICES

DESIGN - OTHER

***manufacturability analysis/prod. methods**

COMPANY PROFILE

SUMMARY PROFILE

**Consultant In High Performance
Manufacturing and all its related
activities.**

**SIZE OF FACILITY
18,000 sq. feet**

**NUMBER OF EMPLOYEES
28**

**ESTABLISHED
1981**

Optech Systems Corp.

**701 PETROLIA ROAD
DOWNSVIEW, ONTARIO
M3J 2N6**

**TELEPHONE
(416) 661-5904**

**CHIEF EXECUTIVE
DR. A.I. CARSWELL**

**CONTACT
BILL MATVICHUK, MARKETING MANAGER**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * laser radar systems
- * laser rangefinders
- * laser altimeters
- * laser water-depth mapping systems

**AFFILIATE NAMES
OPTECH INC.**

**SIZE OF FACILITY
14,000 sq. feet**

**NUMBER OF EMPLOYEES
32**

**ESTABLISHED
1974**

Optimage

P.O. BOX 44
ADELAIDE STATION
TORONTO, ONTARIO
M5C 2H8

TELEPHONE
(416) 422-3217

CHIEF EXECUTIVE
T.U. ARCHER

CONTACT
T.U. ARCHER, C.E.O.

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *communications
- *process control

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * computer consulting (technical) IBM systems 370, AS400, S36/38
- * computer software maintenance
- * image processing: file management and document systems
- * R & D for special products; studies
- * PSii, fax, laptop computers for professionals & business

SIZE OF FACILITY

1,500 sq. feet

NUMBER OF EMPLOYEES

15

ESTABLISHED

1987

Orlon Technical Consulting Ltd.

**189 SPRINGHEAD GARDENS
UNIT 4
RICHMOND HILL, ONTARIO
L4C 5C7**

**TELEPHONE
(416) 737-3240**

**CHIEF EXECUTIVE
BERNARD BOIS**

**CONTACT
BERNARD BOIS, PRESIDENT**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design**
- *circuit simulations**
- *use of CAD in engineering design**

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems**
- *real time applications**
- *simulation**
- *communications**
- *process control**

COMPANY PROFILE

SUMMARY PROFILE

A computer and engineering consulting company offering realtime system design and implementation, user interface development, and contract R&D in software, electro-optics and communications.

MAJOR PRODUCTS & SERVICES

- * contract systems analysis and development**
- * computer consulting in realtime applications**
- * contract R&D services in electronics, software, optics and communications**

SIZE OF FACILITY

500 sq. feet

NUMBER OF EMPLOYEES

2

ESTABLISHED

1986

Ortech Corporation

**2395 SPEAKMAN DRIVE
MISSISSAUGA, ONTARIO
L5K 1B3**

**TELEPHONE
(416) 822-4111**

**CHIEF EXECUTIVE
W. P. MIDGHALL**

**CONTACT
JOHN PATERSON, MANAGER**

COMPANY PROFILE

SUMMARY PROFILE
Multidiscipline design/development facility - electronics power supplies, digital, radio, ultrasonics, automotive Mississauga, Niagara, Sarnia.

MAJOR PRODUCTS & SERVICES
* silicon ASIC circuits
* surface mount printed circuits
* design security camouflaging
* electronic systems product integrity

**PARENT COMPANY
ORTECH INTERNATIONAL**

**SIZE OF FACILITY
276,000 sq. feet**

**NUMBER OF EMPLOYEES
400**

**ESTABLISHED
1928**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*electrical circuit design
*thermal design
*power supply design
*circuit simulations
*mechanical design
*mechanical analysis
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*simulation

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer
*surface mounted devices
*thin film

IC DESIGN AND EVALUATION
*gate arrays
*standard cells

PCB MANUFACTURER
*thin film

PCB ASSEMBLY
*programmable testing
*surface mount capability
*prototype quantities
*final assembly and wiring

PLASTIC ENCLOSURES,PARTS, FIXTURES
*prototyping
*special coating and shielding
*approvals ie. CSA/UL

METAL FABRICATION
*prototyping
*jigs/fixtures, tools/dies, molds

ELECTRICAL TESTING SERVICES
*passive component testing
*electromagnetic characterization
*environmental and vibration testing
*calibration services

DOCUMENTATION SERVICES
*PC artwork service using CAD
*technical writing/manuals, etc.

Ove Design Toronto Ltd.

73 LAIRD DRIVE
SUITE 302
TORONTO, ONTARIO
M4G 3T4

TELEPHONE
(416) 423-6228

CHIEF EXECUTIVE
TIM POUPORE

CONTACT
TIM POUPORE, ASSOCIATE IND. DES.

COMPANY PROFILE

SUMMARY PROFILE

Fully computerized facilities offering
industrial design, graphic design,
exhibit design.

MAJOR PRODUCTS & SERVICES

- * industrial design
- * graphic design
- * exhibit design

SIZE OF FACILITY

4,000 sq. feet

NUMBER OF EMPLOYEES

15

ESTABLISHED

1981

SERVICES

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design
- *industrial design

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *prototyping

METAL FABRICATION

- *prototyping

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

P-Can Machining Inc.

**80 GALAXY BOULEVARD
UNIT 7
REXDALE, ONTARIO
M9W 4Y8**

**TELEPHONE
(416) 674-6600**

**CHIEF EXECUTIVE
F. JONEIDI**

**CONTACT
F. JONEIDI, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Located next to Pearson Airport. High precision machining with CAE, DNC facility 3 to 5 AWS.

MAJOR PRODUCTS & SERVICES

- * CAD-CAM prototype military
- * automated systems
- * other, dies, fixtures

PARENT COMPANY

P-CAN RESEARCH INC.

AFFILIATE NAMES

**P-CAN CAD-CAM INC.
P-CAN ROBOTICS INC.**

SIZE OF FACILITY

10,000 sq. feet

NUMBER OF EMPLOYEES

15

ESTABLISHED

1986

SERVICES

ENGINEERING DESIGN

- *thermal design
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *process control

METAL FABRICATION

- *standard "off the shelf" enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

PC World, Div. of Helix Circuits Inc.

**250 FINCHdene SQUARE
SCARBOROUGH, ONTARIO
M1X 1A5**

**TELEPHONE
(416) 299-4000**

**CHIEF EXECUTIVE
RONALD A. HUNTER**

**CONTACT
JAMES M. BANNATYNE, DIR. OF MARKETING**

SERVICES

PCB MANUFACTURER
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less

COMPANY PROFILE

SUMMARY PROFILE
Manufacturer of PCBs, with plants at
Toronto and California.

MAJOR PRODUCTS & SERVICES
* printed circuit boards

PARENT COMPANY
HELIX CIRCUITS INC.

AFFILIATE NAMES
NATIONAL TECHNOLOGY, IRVINE, CALIF.

SIZE OF FACILITY
80,000 sq. feet

NUMBER OF EMPLOYEES
222

ESTABLISHED
1982

Pachena Scientific & Ind Electronics Inc

**100 STROWGER BOULEVARD
BROCKVILLE, ONTARIO
K6V 5W8**

**TELEPHONE
(613) 342-6621**

CHIEF EXECUTIVE

**CONTACT
MIKE MARSHALL, PROJECT MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

**Contract design & manufacturing service
group**

MAJOR PRODUCTS & SERVICES

- * microprocessor based
- * proprietary products
- * engineering services
- * total turnkey service

**PARENT COMPANY
MICROTEL**

**AFFILIATE NAMES
SMT NORTHWEST INC.**

**SIZE OF FACILITY
12,000 sq. feet**

**NUMBER OF EMPLOYEES
50**

**ESTABLISHED
1979**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

IC DESIGN AND EVALUATION

- *gate arrays
- *prototyping

ELECTRICAL TESTING SERVICES

- *passive component testing
- *certification - UL
- *certification - CSA
- *certification - DOC
- *calibration services

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.
- *photo tool manufacturing

Patlon Aircraft & Industries Limited

**5502 TIMBERLEA BOULEVARD
MISSISSAUGA, ONTARIO
L4W 2T7**

**TELEPHONE
(416) 624-5572**

**CHIEF EXECUTIVE
P. B. MANN**

**CONTACT
R. A. CLARK, SALES ENGINEER**

COMPANY PROFILE

SUMMARY PROFILE

Company located in large Mississauga facility. We have a static control dept. servicing the electronics industry. We have a resident government inspector.

MAJOR PRODUCTS & SERVICES

- * wrist straps, grounding cords, heel grounders
- * conductive flooring
- * table and floor mats
- * ESD bags

SIZE OF FACILITY

5,000 sq. feet

NUMBER OF EMPLOYEES

25

ESTABLISHED

1953

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods

ELECTRICAL TESTING SERVICES

- *passive component testing
- *electromagnetic characterization
- *environmental and vibration testing
- *certification - UL
- *certification - CSA
- *calibration services

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Patrick Plastics Inc.

**2424 FINCH AVENUE WEST
UNIT 6
WESTON, ONTARIO
M9M 2E3**

**TELEPHONE
(416) 745-9100**

**CHIEF EXECUTIVE
PATRICK HUNG**

**CONTACT
PATRICK HUNG, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* custom tooling and plastic injection
moulding

AFFILIATE NAMES
SEASON WIRE HARNESS AND ELECTRONIC
COMPONENTS CO. LTD.

SIZE OF FACILITY
15,000 sq. feet

NUMBER OF EMPLOYEES
40

ESTABLISHED
1983

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*manufacturability analysis/prod. methods
*tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES
*small parts
*long production runs

Payne Metal Enterprises Ltd.

**1880 KIPLING AVENUE
REXDALE, ONTARIO
M9W 4J1**

**TELEPHONE
(416) 248-6666**

**CHIEF EXECUTIVE
S. EDMONDS**

**CONTACT
DEL EDMONDS, INT'L BUSINESS DEVELOP.**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * machining of castings, extrusions and stampings
- * business machine components
- * spinning, welding and assembly

**PARENT COMPANY
PAYNE COMPANIES**

**AFFILIATE NAMES
PAYNE MANUFACTURING CO. LTD.
AIRCRAFT SPINNINGS LTD.**

**SIZE OF FACILITY
40,000 sq. feet**

**NUMBER OF EMPLOYEES
100**

**ESTABLISHED
1945**

SERVICES

**ENGINEERING DESIGN
*mechanical design**

**DESIGN - OTHER
*enclosure design
*manufacturability analysis/prod. methods
*tool maker
*packaging design**

**PLASTIC ENCLOSURES, PARTS, FIXTURES
*large parts - housings, enclosures
*small parts
*prototyping
*long production runs
*special coating and shielding
*approvals ie. CSA/UL
*jigs and fixtures**

**METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding
*jigs/fixtures, tools/dies, molds**

**DOCUMENTATION SERVICES
*technical writing/manuals, etc.**

Peel Circuit Board Assembly Ltd.

18 STRATHEARN AVENUE
UNIT 16
BUILDING B SOUTH
BRAMPTON, ONTARIO
L6T 4L8

TELEPHONE
(416) 792-8429

CHIEF EXECUTIVE
R. HOLMES

CONTACT
M. KARA, PRODUCTION MANAGER

COMPANY PROFILE

SUMMARY PROFILE
PCB assembler.

SIZE OF FACILITY
5,000 sq. feet

NUMBER OF EMPLOYEES
15

ESTABLISHED
1987

SERVICES

PCB ASSEMBLY
*wave soldering
*programmable testing
*prototype quantities
*final assembly and wiring

ELECTRICAL TESTING SERVICES
*passive component testing
*integrated circuit testing
*calibration services

DOCUMENTATION SERVICES
*PC artwork service using CAD

Percept Industrial Design Inc.

**480 VICTORIA STREET NORTH
KITCHENER, ONTARIO
N2H 5E6**

**TELEPHONE
(519) 749-3186**

**CHIEF EXECUTIVE
KEITH MCQUARRIE**

**CONTACT
KEITH MCQUARRIE, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * Industrial design consulting
- * manufacture of mockups & prototypes
- * manufacture of custom enclosures for electronic products
- * product & process development

AFFILIATE NAMES

COMPACT ENTERPRISES

SIZE OF FACILITY

2,000 sq. feet

NUMBER OF EMPLOYEES

6

ESTABLISHED

1983

SERVICES

ENGINEERING DESIGN

- *mechanical design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *packaging design
- *Industrial design

PLASTIC ENCLOSURES, PARTS, FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *jigs and fixtures

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping

DOCUMENTATION SERVICES

- *technical writing/manuals, etc.

Plus 1 (Div. of Dy-4 Systems Inc.)

**301 MOODIE DRIVE
SUITE 335
NEPEAN, ONTARIO
K2H 9C4**

**TELEPHONE
(613) 596-9922**

**CHIEF EXECUTIVE
GARRY DOOL**

**CONTACT
MITCHELL ROBINSON, GENERAL MANAGER**

SERVICES

- CIRCUIT BOARD DESIGN**
*single sided / two sided
*multi-layer
*surface mounted devices
*line width 10 mil or less
*flexible boards
*thin film

- DOCUMENTATION SERVICES**
*PC artwork service using CAD
*photo tool manufacturing

COMPANY PROFILE

SUMMARY PROFILE

Plus 1 is located in modern office facilities in the Bells Corners area of the city of Nepean, Ontario. Plus 1 is engaged exclusively in computer aided PCB layout and design services. Plus 1 used CADNETIX PCB CAD equipment.

MAJOR PRODUCTS & SERVICES

- * PCB design & layout
- * drawings
- * phototools
- * prototype PCB's

**PARENT COMPANY
DY-4 SYSTEMS INC.**

**SIZE OF FACILITY
2,300 sq. feet**

**NUMBER OF EMPLOYEES
7**

**ESTABLISHED
1984**

Polytek Electronics

**9 VALANNA COURT
HAMILTON, ONTARIO
L9C 7A3**

**TELEPHONE
(416) 387-1327**

**CHIEF EXECUTIVE
GILBERT J. DANIEL**

**CONTACT
GILBERT J. DANIEL, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * custom design & mfg. of plug-in relay modules, modularization, miniaturization
- * custom control panel building & test equip.
- * repair to "N.C." circuit boards and industrial controls
- * product design & prototyping. Short production runs.

**SIZE OF FACILITY
1,500 sq. feet**

**NUMBER OF EMPLOYEES
4**

**ESTABLISHED
1984**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *prototype quantities

PLASTIC ENCLOSURES,PARTS, FIXTURES

- *prototyping

METAL FABRICATION

- *prototyping

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Prescott Module Co. Ltd.

**P.O. BOX 6
HAWKESBURY, ONTARIO
K6A 2R4**

**TELEPHONE
(613) 632-7102**

**CHIEF EXECUTIVE
YVON DAUTH**

**CONTACT
YVON DAUTH, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Main (4,000 sq ft) plant has offices and thermoset moulding and secondary operations; second (6,000 sq ft) plant houses a fully-equipped toolroom for moulding, thermoplastic and metal-can production. The entire electronic packaging operation is housed in one facility.

MAJOR PRODUCTS & SERVICES

- * thermoset moulding
- * thermoplastic moulding
- * deep draw and stamping
- * punching laminates, G-10, XXXP, etc.

SIZE OF FACILITY

10,000 sq. feet

NUMBER OF EMPLOYEES

26

ESTABLISHED

1969

SERVICES

DESIGN - OTHER

- *tool maker
- *packaging design

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *small parts
- *long production runs
- *special coating and shielding
- *jigs and fixtures

METAL FABRICATION

- *standard "off the shelf" enclosures
- *aluminum parts and enclosures
- *parts - stamped/pressed
- *long production runs
- *jigs/fixtures, tools/dies, molds

Prestec Electronics Ltd.

**1386 STAR TOP ROAD
OTTAWA, ONTARIO
K1B 4V7**

**TELEPHONE
(613) 744-3043**

**CHIEF EXECUTIVE
JOHN C. SWIFT**

**CONTACT
D. STEVENS, VICE PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

An electronic subassembly facility dedicated to fabricating pressfit backplanes, cables and harnesses, and board-stuffing; meets CSA and UL standards

MAJOR PRODUCTS & SERVICES

- * pressfit backplanes
- * cable and harness assemblies
- * hand-soldered board stuffing

SIZE OF FACILITY

5,500 sq. feet

NUMBER OF EMPLOYEES

35

ESTABLISHED

1980

SERVICES

PCB ASSEMBLY

*final assembly and wiring

Pri Con Corporation

301 MOODIE DRIVE
SUITE 350/404
NEPEAN, ONTARIO
K2H 9C4

TELEPHONE
(613) 596-1737

CHIEF EXECUTIVE
CHUCK BRYANT

CONTACT
ANNE CARROLL, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Pri Con has two divisions - 1) Pri Con Personnel is selection & hiring of personnel for High Tech companies. 2) Pri Con Photolab provides a layout design service.

MAJOR PRODUCTS & SERVICES

- Pri Con Photolab
- * Computer Aided Design of printed circuit boards
- * photo plotting of Computer Aided Designs for the fabrication of PCBs, master phototools and contacts
- * subcontract the fabrication and assembly
- Pri Con Personnel
- * placement of specialists in the high tech field - permanent & part time or temporary contracts

SIZE OF FACILITY
2,600 sq. feet

NUMBER OF EMPLOYEES
9

ESTABLISHED
1983

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *thin film

PCB ASSEMBLY

- *prototype quantities

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *calibration services

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Price & Knott Mfg. Co. Limited

**655 FINLEY AVENUE
AJAX, ONTARIO
L1S 3V3**

**TELEPHONE
(416) 683-7501**

**CHIEF EXECUTIVE
BERNARDO SZTABINSKI**

**CONTACT
BARRY WHEELER, V.P. SALES**

COMPANY PROFILE

SUMMARY PROFILE

Custom manufacturing includes sheet-metal fabrication, welding, CNC machining and turning for the aerospace, defence and electronics industries; working to close tolerances is a specialty. Equipment is constantly upgraded, and staff training is vigorously maintained.

MAJOR PRODUCTS & SERVICES

- * metal fabrication
- * welding
- * machining
- * mechanical assemblies and sub systems

**PARENT COMPANY
WERNER DAHNZ CO. LTD.**

**AFFILIATE NAMES
ACCURON PROFESSIONAL METAL FABRICATORS
INC., KANATA, ONTARIO**

**SIZE OF FACILITY
62,000 sq. feet**

**NUMBER OF EMPLOYEES
80**

**ESTABLISHED
1954**

SERVICES

ENGINEERING DESIGN
*mechanical analysis

DESIGN - OTHER
*manufacturability analysis/prod. methods

METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - stamped/pressed
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding
*jigs/fixtures, tools/dies, molds

Prior Data Sciences Ltd.

**144 FRONT STREET WEST
TORONTO, ONTARIO
M5J 1G2**

**TELEPHONE
(416) 596-1429**

**CHIEF EXECUTIVE
JACK PRIOR**

**CONTACT
ANDRE STAVRI, DIRECTOR, MARKETING**

COMPANY PROFILE

SUMMARY PROFILE
Plants at Toronto, Halifax and Ottawa,
with a total of 180 employees.

SIZE OF FACILITY
33,000 sq. feet

NUMBER OF EMPLOYEES
180

ESTABLISHED
1977

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*operating systems
*real time applications
*simulation
*communications
*process control

Priority 01 Computer Education Services

191 THE WEST MALL
4TH FLOOR
ETOBICOKE, ONTARIO
M9C 5K8

TELEPHONE
(519) 679-5550

CHIEF EXECUTIVE
DAVID B. PATRICK

CONTACT
DAVID B. PATRICK, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE
Project oriented work.

MAJOR PRODUCTS & SERVICES
* training needs assessment and
implementation strategy
* training materials design,
development & production
* technical documentation writing

SIZE OF FACILITY
3,000 sq. feet

NUMBER OF EMPLOYEES
8

ESTABLISHED
1983

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*simulation

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Proto Engineering, Div. of Fraja Ltd.

**1710 MIDLAND AVENUE
UNIT 1
SCARBOROUGH, ONTARIO
M1P 3C7**

**TELEPHONE
(416) 752-1777**

**CHIEF EXECUTIVE
E.T. JAGGER**

**CONTACT
E.T. JAGGER, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Proto's services include tools, dies, metal stampings, sheet-metal forming, machining, assembly and welding

**SIZE OF FACILITY
2,500 sq. feet**

**NUMBER OF EMPLOYEES
3**

**ESTABLISHED
1960**

SERVICES

METAL FABRICATION

- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

Prototype Circuits Inc.

**170 NANTUCKET BOULEVARD
1-4
SCARBOROUGH, ONTARIO
M1P 2N5**

**TELEPHONE
(416) 751-8752**

**CHIEF EXECUTIVE
BARRY BRISTOW**

**CONTACT
PAUL C. LANGSTON, SALES MANAGER**

SERVICES

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *prototype development
- *electrical testing

COMPANY PROFILE

SUMMARY PROFILE

A manufacturer of double-sided and multilayer PCB's, catering specifically to clients that have immediate prototype and production PCB requirements.

MAJOR PRODUCTS & SERVICES

- * printed circuit boards: double-sided and multilayer

SIZE OF FACILITY

12,000 sq. feet

NUMBER OF EMPLOYEES

48

ESTABLISHED

1981

Pyramid Engineering and Mgt. Consultants

**307 PARKLANE ROAD
OAKVILLE, ONTARIO
L6H 4J1**

**TELEPHONE
(416) 844-4293**

**CHIEF EXECUTIVE
PAUL C. DINOVO**

**CONTACT
PAUL C. DINOVO, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Marketing, project management, and automation are among the consulting services offered; Pyramid also configures computer systems for manufacturing companies.

MAJOR PRODUCTS & SERVICES

- * management consulting
- * manufacturing engineering
- * project management, facilities
- * profit-improvement studies

SIZE OF FACILITY

3,100 sq. feet

NUMBER OF EMPLOYEES

4

ESTABLISHED

1970

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *distributor network investigation

**400 MATHESON BOULEVARD EAST
UNIT 34
MISSISSAUGA, ONTARIO
L4Z 1N8**

**TELEPHONE
(416) 890-1818**

**CHIEF EXECUTIVE
C. J. NAPIER**

**CONTACT
ANDY ROWE, V.P. SALES & MARKETING**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * Industrial electronic display product
- * custom design and manufacturing of consumer electronic products, including CSA/UL approvals
- * sub-contract manufacturing and service of electronic instrumentation
- * remote machine monitoring system for vibration analysis

**AFFILIATE NAMES
DIGITAL DESIGN CONSULTANTS INC.**

**SIZE OF FACILITY
5,700 sq. feet**

**NUMBER OF EMPLOYEES
12**

**ESTABLISHED
1984**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *tool maker

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *flexible boards

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *certification - UL
- *certification - CSA
- *calibration services

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Qualifled Metal Fab Ltd.

**55 STEINWAY BOULEVARD
REXDALE, ONTARIO
M9W 6H6**

**TELEPHONE
(416) 675-7777**

**CHIEF EXECUTIVE
BRYAN HARYOTT**

**CONTACT
BRYAN HARYOTT, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
CNC punching, forming, and shearing;
specializing in close-tolerance
sheet-metal chassis, enclosures and
cabinets etc.

MAJOR PRODUCTS & SERVICES
* chassis
* cabinets
* enclosures
* frames

SIZE OF FACILITY
45,000 sq. feet

NUMBER OF EMPLOYEES
60

ESTABLISHED
1969

SERVICES

METAL FABRICATION
*large and/or custom enclosures & frames
*aluminum parts and enclosures
*parts - stamped/pressed
*parts - brake and form

Quality Circuits Manufacturing Ltd.

**4478 CHESSWOOD DRIVE
UNIT 8
NORTH YORK, ONTARIO
M3J 2B9**

**TELEPHONE
(416) 635-0451**

**CHIEF EXECUTIVE
HELMUT MATTLER**

**CONTACT
MARGARET RUSSELL, SALES REPRESENTATIVE**

COMPANY PROFILE

SUMMARY PROFILE

Located in the Downsview area of
Toronto, military and UL approved.

MAJOR PRODUCTS & SERVICES

* manufacture of printed circuit
boards, CAD (design), digitizing &
photoplotting.

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
65**

**ESTABLISHED
1969**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards

PCB MANUFACTURER

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *prototype development
- *electrical testing

PCB ASSEMBLY

- *prototype quantities

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Quest-Tech Precision Inc.

**25 WALLBRIDGE CRESCENT
BELLEVILLE, ONTARIO
K8P 1Z3**

**TELEPHONE
(613) 966-7551**

**CHIEF EXECUTIVE
AHMAD KHODKAR**

**CONTACT
PETER SAVIDGE, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

A CNC punch press, CNC laser cutter, & CNC press brakes are among the items of equipment; the company does fabrication and welding to DND requirements, painting and plating to MIL specifications, and assembly of sheet-metal components.

MAJOR PRODUCTS & SERVICES

- * sheet metal components: chassis, racks, covers, brackets
- * sheet metal fabrications: cabinets, doors, consoles
- * plating: zinc and cadmium
- * painting and oven baking

**SIZE OF FACILITY
25,000 sq. feet**

**NUMBER OF EMPLOYEES
50**

**ESTABLISHED
1983**

SERVICES

ENGINEERING DESIGN
*mechanical design

DESIGN - OTHER
*enclosure design

METAL FABRICATION
*standard "off the shelf" enclosures
*aluminum parts and enclosures
*enclosures: to CSA/EEMAC/UL standards
*parts - brake and form
*prototyping
*long production runs
*special coating and shielding

R. CAD Systems

**199 WESTWOOD ROAD
SUITE 22
GUELPH, ONTARIO
N1H 7S1**

**TELEPHONE
(519) 837-0147**

**CHIEF EXECUTIVE
B. GEAUVREAU**

**CONTACT
B. GEAUVREAU, PARTNER**

COMPANY PROFILE

SUMMARY PROFILE
Dealer, software, hardware & repairs.

**ESTABLISHED
1988**

SERVICES

ENGINEERING DESIGN
*mechanical design
*mechanical analysis

DESIGN - OTHER
*tool maker

RMF and Associates Ltd.

**63A ADVANCE ROAD
TORONTO, ONTARIO
M8Z 2S6**

**TELEPHONE
(416) 233-4787**

**CHIEF EXECUTIVE
RICHARD FINE**

**CONTACT
RICHARD FINE, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE
Staff of 8, offer electronic design,
programming and manufacturing services.

MAJOR PRODUCTS & SERVICES
* electronic engineering, circuit
design, analog and digital
* programming, real time monitoring and
control and data communications
* manufacturing of circuit boards
designed by ourselves and others

SIZE OF FACILITY
1,300 sq. feet

NUMBER OF EMPLOYEES
6

ESTABLISHED
1983

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*power supply design
*circuit simulations
*use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications
*communications
*process control

IC DESIGN AND EVALUATION
*gate arrays

PCB ASSEMBLY
*wave soldering
*prototype quantities
*final assembly and wiring

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Rantech Electronics Ltd.

**155 ROWNTREE DAIRY ROAD
UNIT 1
WOODBIDGE, ONTARIO
L4L 6E1**

**TELEPHONE
(416) 856-3811**

**CHIEF EXECUTIVE
D. B. ANDERSON**

**CONTACT
W. F. NEWHOUSE, V. P. SALES**

COMPANY PROFILE

SUMMARY PROFILE

Light electronic manufacturing,
engineered remote control systems for
utilities, printed circuit board design
assembly

MAJOR PRODUCTS & SERVICES

- * supervisory control & data acquisition systems
- * communication control systems
- * build-to-spec (i.e. assemble for other mfrs.)

**PARENT COMPANY
FEDERAL INDUSTRIES LTD.**

**SIZE OF FACILITY
13,300 sq. feet**

**NUMBER OF EMPLOYEES
30**

**ESTABLISHED
1976**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *line width 10 mil or less

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

**44 STEACIE DRIVE
KANATA, ONTARIO
K2K 2A9**

**TELEPHONE
(613) 592-2411**

**CHIEF EXECUTIVE
M. SULLIVAN**

**CONTACT
M. SULLIVAN, DIRECTOR OF MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

An independent testing laboratory for integrated circuits and semiconductors, with 10 years experience serving major telecom and aerospace companies; its customer products division has produced systems for X.25 networks

MAJOR PRODUCTS & SERVICES

- * research, design and manufacture of electronic products and boards with specialty in microprocessor and data com
- * testing laboratory for electronic components including QC reliability enhancement, burn in
- * programmable logic devices (PLD) design and programming

**SIZE OF FACILITY
5,000 sq. feet**

**NUMBER OF EMPLOYEES
15**

**ESTABLISHED
1975**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing
- *calibration services

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Renco Design Ltd.

**3089 BATHURST STREET
SUITE 310
TORONTO, ONTARIO
M6A 2A4**

**TELEPHONE
(416) 787-5623**

**CHIEF EXECUTIVE
CHARLES MILLAR**

**CONTACT
DEREK MILLAR, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Mechanical design consultants (20 boards on site), with technical overload and manufacturing processing services also offered.

MAJOR PRODUCTS & SERVICES

- * computers - robotic cells for assembly
- * automotive - tools, jigs & fixtures
- * aerospace
- * telecommunications

**SIZE OF FACILITY
5,000 sq. feet**

**NUMBER OF EMPLOYEES
100**

**ESTABLISHED
1955**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design
- *industrial design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Ritz Electronics Limited

**196 QUEEN STREET NORTH
NEW DUNDEE, ONTARIO
N0B 2E0**

**TELEPHONE
(519) 696-2616**

**CHIEF EXECUTIVE
ED A. RITZ**

**CONTACT
GARY RITZ, SALES MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Computerized shear, punching and forming of metal parts; paint and silk-screen lines; electronics and woodworking production.

MAJOR PRODUCTS & SERVICES

- * fabricating of metal cabinets
- * power supplies
- * automotive audio and specialty display cabinets
- * wire harness display signs

SIZE OF FACILITY

20,000 sq. feet

NUMBER OF EMPLOYEES

35

ESTABLISHED

1974

SERVICES

ENGINEERING DESIGN

- *power supply design
- *mechanical design

DESIGN - OTHER

- *enclosure design

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *long production runs
- *special coating and shielding

Rodlin Instruments Inc.

**774 RYE STREET
UNIT 10
PETERBOROUGH, ONTARIO
K9J 6W9**

**TELEPHONE
(705) 742-5622**

**CHIEF EXECUTIVE
ROD J. GORDON**

**CONTACT
ROD J. GORDON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Assembly of printed circuit boards or other subassemblies, electronic circuit and circuit board design.

MAJOR PRODUCTS & SERVICES

- * subcontract electronic assembly
- * printed circuit board or packaging design
- * design and manufacture of custom electronic equipment

**SIZE OF FACILITY
4,000 sq. feet**

**NUMBER OF EMPLOYEES
5**

**ESTABLISHED
1984**

SERVICES

ENGINEERING DESIGN
*electronic circuit design

DESIGN - OTHER
*packaging design

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB ASSEMBLY
*wave soldering
*prototype quantities
*final assembly and wiring

Saltfleet Aluminum Foundry Ltd.

**328 LAKE AVENUE NORTH
HAMILTON, ONTARIO
L8E 3A2**

**TELEPHONE
(416) 561-0033**

**CHIEF EXECUTIVE
JOHN DOESBORGH**

**CONTACT
GARY DOESBORGH, PLANT MANAGER**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* aluminum sand-castings

SIZE OF FACILITY
14,000 sq. feet

NUMBER OF EMPLOYEES
18

ESTABLISHED
1966

SERVICES

- METAL FABRICATION**
- *large and/or custom enclosures & frames
 - *aluminum parts and enclosures
 - *enclosures: to CSA/EEMAC/UL standards
 - *prototyping
 - *long production runs
 - *jigs/fixtures, tools/dies, molds

Sambrook & Hermetz Industrial Designers

**116 VICEROY ROAD
UNIT D-9
CONCORD, ONTARIO
L4K 2M4**

**TELEPHONE
(416) 736-7619**

**CHIEF EXECUTIVE
DAVID SAMBROOK**

**CONTACT
DAVID SAMBROOK, PRESIDENT**

COMPANY PROFILE

**ESTABLISHED
1984**

SERVICES

DESIGN - OTHER

***enclosure design**

***manufacturability analysis/prod. methods**

***industrial design**

Sander Geophysics Limited

**303 LEGGET DRIVE
KANATA, ONTARIO
K2K 2B1**

**TELEPHONE
(613) 592-1301**

**CHIEF EXECUTIVE
GEORGE W. SANDER**

**CONTACT
GEORGE W. SANDER, PRESIDENT**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES
* geophysical surveys
* geophysical instruments
* software
* research

**SIZE OF FACILITY
7,000 sq. feet**

**NUMBER OF EMPLOYEES
35**

**ESTABLISHED
1956**

SERVICES

ENGINEERING DESIGN
*electronic circuit design
*mechanical design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications
*simulation
*process control

DOCUMENTATION SERVICES
*PC artwork service using CAD

Scott Gibson Product Design Inc.

**61-A YORK STREET
OTTAWA, ONTARIO
K1N 5T2**

**TELEPHONE
(613) 230-8668**

**CHIEF EXECUTIVE
SCOTT GIBSON**

**CONTACT
SCOTT GIBSON, PRESIDENT**

SERVICES

ENGINEERING DESIGN
*mechanical design
*use of CAD in engineering design

DESIGN - OTHER
*enclosure design
*packaging design
*industrial design

COMPANY PROFILE

SUMMARY PROFILE
Industrial design consulting office
specializing in high technology.

MAJOR PRODUCTS & SERVICES
* Industrial design

SIZE OF FACILITY
700 sq. feet

NUMBER OF EMPLOYEES
3

ESTABLISHED
1983

**1060 BRITANNIA ROAD EAST
UNIT 12
MISSISSAUGA, ONTARIO
L4W 4T1**

**TELEPHONE
(416) 670-1650**

**CHIEF EXECUTIVE
BANG VAN PHAM**

**CONTACT
CHAU PHAM, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Facility equipped for the manufacture of teleprinter units; products distribution, assembly, prototyping and product development is managed on the site.

MAJOR PRODUCTS & SERVICES

- * telecommunication products: modems, micro-controller boards, PC FAX board, PC multiport serial controller, communications softwares, PC AT + PS/2 RAM expansion boards
- * software design (consulting)
- * hardware design
- * teleprinter paper winders and holders

AFFILIATE NAMES

**EDWARDS INTERNATIONAL DATA CORP.
BERLIN, N.J., U.S.A. (609) 859-1738**

**SIZE OF FACILITY
4,800 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1985**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *simulation
- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *standard "off the shelf" enclosures
- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *prototyping
- *long production runs

Sigma Moulders

**150 MCLEVIN AVENUE
SCARBOROUGH, ONTARIO
M1B 3V1**

**TELEPHONE
(416) 297-0088**

**CHIEF EXECUTIVE
SAM GRUNDLAND**

**CONTACT
SAM GRUNDLAND, CEO**

COMPANY PROFILE

SUMMARY PROFILE

60 ton-500 ton Injection moulding machines, mould design, mould manufacturing & tooling, mould testing & de-bugging, etc.

MAJOR PRODUCTS & SERVICES

- * plastic Injection moulding and assembly
- * mould manufacturing and tooling

AFFILIATE NAMES

SIGMA TOOL LTD.

SIZE OF FACILITY

50,000 sq. feet

NUMBER OF EMPLOYEES

55

ESTABLISHED

1965

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures
- *small parts
- *prototyping
- *long production runs
- *approvals ie. CSA/UL
- *jigs and fixtures

METAL FABRICATION

- *parts - stamped/pressed
- *prototyping
- *long production runs
- *jigs/fixtures, tools/dies, molds

Silcom Manufacturing Technology Inc.

**6182 KESTREL ROAD
MISSISSAUGA, ONTARIO
L5T 1V7**

**TELEPHONE
(416) 238-8822**

**CHIEF EXECUTIVE
Z. TURLEJ**

**CONTACT
G. LIVSHITZ, DIRECTOR OF MARKETING**

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * electronic circuit design
- * circuit board/substrates design:
 - single sided PCB, double sided PCB, multilayer PCB & other substrates
- * PCB assembly: surface mount assembly, bonding capacity, final assembly & wiring
- * electrical and environmental testing

**AFFILIATE NAMES
LINCOLN, R.I., U.S.A.**

**SIZE OF FACILITY
23,000 sq. feet**

**NUMBER OF EMPLOYEES
80**

**ESTABLISHED
1981**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film

IC DESIGN AND EVALUATION

- *standard cells

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing

MARKET CONSULTING

- *non-consumer market sizing - export
- *distributor network investigation

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.
- *photo tool manufacturing

Simpson Engineering

**4630 DUFFERIN STREET
SUITE 309
TORONTO, ONTARIO
M3H 5S4**

**TELEPHONE
(416) 663-6400**

**CHIEF EXECUTIVE
DAVID K. SIMPSON**

**CONTACT
DAVID K. SIMPSON, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Industrial and plant engineering for
industrial clients; two CAD stations
and various CAE facilities on hand

MAJOR PRODUCTS & SERVICES

- * plant and industrial engineering
services
- * custom machine design and plant
automation
- * robotics

AFFILIATE NAMES

**TRANSDYNAMIC ENGINEERING LTD.
AUTOCON ENGINEERING LTD.
HILL INDUSTRIAL ENGINEERING**

SIZE OF FACILITY

1,600 sq. feet

NUMBER OF EMPLOYEES

6

ESTABLISHED

1974

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *mechanical analysis
- *use of CAD in engineering design

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

Smert Computer Aided Design & Proto. Inc

**P.O. BOX 13280
KANATA, ONTARIO
K2K 1X4**

**TELEPHONE
(613) 839-5588**

**CHIEF EXECUTIVE
RAYMOND FOURASTIER**

**CONTACT
FRANK SCHULTA, OPERATIONS MANAGER**

SERVICES

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

COMPANY PROFILE

SUMMARY PROFILE

Printed circuit design layout
specializing in high density
interconnect phototool generation and
design documentation.

MAJOR PRODUCTS & SERVICES

- * high density interconnect design
utilizing IBM/CBDS
- * PCAD design
- * digitizing (PC-800)
- * phototool generation

**PARENT COMPANY
SME MONACO**

**SIZE OF FACILITY
5,800 sq. feet**

**NUMBER OF EMPLOYEES
14**

**ESTABLISHED
1987**

Smith Boake Designwerke Inc.

**366 KING STREET EAST
TORONTO, ONTARIO
M5A 1K9**

**TELEPHONE
(416) 362-6000**

CHIEF EXECUTIVE

**CONTACT
JACK SMITH, VICE PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

A Toronto based industrial design studio, with experience in electronic product enclosure design.

**SIZE OF FACILITY
2,000 sq. feet**

**NUMBER OF EMPLOYEES
7**

**ESTABLISHED
1982**

SERVICES

**DESIGN - OTHER
*industrial design**

**ELECTRICAL TESTING SERVICES
*certification - CSA**

Spectrum Electronics

**14 KNIGHTSWOOD CRESCENT
BRANTFORD, ONTARIO
N3R 7E6**

**TELEPHONE
(519) 753-4688**

**CHIEF EXECUTIVE
ED VANDER RYD**

**CONTACT
ED VANDER RYD, OWNER**

COMPANY PROFILE

SUMMARY PROFILE
A small prototype and design shop for printed circuits

MAJOR PRODUCTS & SERVICES
* printed circuit boards: manufacture, design, subassembly and testing.

SIZE OF FACILITY
200 sq. feet

NUMBER OF EMPLOYEES
1

ESTABLISHED
1978

SERVICES

ENGINEERING DESIGN
*electronic circuit design

CIRCUIT BOARD DESIGN
*single sided / two sided

PCB MANUFACTURER
*single sided / two sided
*prototype development
*electrical testing

PCB ASSEMBLY
*prototype quantities

ELECTRICAL TESTING SERVICES
*passive component testing

DOCUMENTATION SERVICES
*technical writing/manuals, etc.
*photo tool manufacturing

Standards Approval Group Inc.

**175 TRADERS BOULEVARD EAST
MISSISSAUGA, ONTARIO
L4Z 2E5**

**TELEPHONE
(416) 890-2800**

**CHIEF EXECUTIVE
M. IVEZIC**

**CONTACT
D. DODS, VICE PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Largest EMI (Independent) facilities in Canada. Open-area test site, shielded rooms, safety labs, accredited telcom facilities offer our clients a 'one-stop shop' for all product approvals required in North America.

MAJOR PRODUCTS & SERVICES

- * product safety testing, approvals
CSA, UL, TOV
- * Telco product testing &
certifications, DOC CS03 & FCC part 68
- * EMI testing to FCC part 15, DOC
C.R.C.c1374
- * RFI testing to FCC and DOC standards

SIZE OF FACILITY

15,000 sq. feet

NUMBER OF EMPLOYEES

30

ESTABLISHED

1986

SERVICES

ELECTRICAL TESTING SERVICES

- *electromagnetic characterization
- *environmental and vibration testing
- *certification - UL
- *certification - CSA
- *certification - DOC

Stegg Limited

**294 UNIVERSITY AVENUE
BELLEVILLE, ONTARIO
K8N 5E8**

**TELEPHONE
(613) 966-4000**

**CHIEF EXECUTIVE
D. GARTH STEPHANSON**

**CONTACT
HEATHER MACGREGOR**

COMPANY PROFILE

SUMMARY PROFILE

Precision machining for the electronics, communications, computer, automotive, consumer, aircraft, defence, and manufacturing industries.

MAJOR PRODUCTS & SERVICES

- * screw machine products
- * CNC turned products
- * centreless grinding
- * electronic hardware
- * small assemblies

SIZE OF FACILITY

37,000 sq. feet

NUMBER OF EMPLOYEES

50

ESTABLISHED

1956

SERVICES

DESIGN - OTHER

- *enclosure design

METAL FABRICATION

- *long production runs
- *special coating and shielding
- *jigs/fixtures, tools/dies, molds

Stevenson Kellogg & Whinney

**90 SPARKS STREET
10TH FLOOR
OTTAWA, ONTARIO
K1P 5T8**

**TELEPHONE
(613) 238-6512**

**CHIEF EXECUTIVE
PIERRE M. VALLEE**

**CONTACT
ROBERT D. TYRRELL, PARTNER**

COMPANY PROFILE

**AFFILIATE NAMES
ABT ASSOCIATES OF CANADA
CANADIAN FACTS**

**NUMBER OF EMPLOYEES
317**

**ESTABLISHED
1936**

SERVICES

MARKET CONSULTING

- *non-consumer market sizing - Canada**
- *non-consumer market sizing - export**
- *distributor network investigation**
- *physical distribution advice**

Studio Innova Inc.

**8 CLARENCE SQUARE
TORONTO, ONTARIO
M5V 1H1**

**TELEPHONE
(416) 595-5991**

**CHIEF EXECUTIVE
RICHARD BRAULT**

**CONTACT
RICHARD BRAULT, CO-DIRECTOR**

SERVICES

**DESIGN - OTHER
*Industrial design**

COMPANY PROFILE

SUMMARY PROFILE
Industrial design consultancy, located
in Toronto, servicing Canadian & U.S.
clients.

SIZE OF FACILITY
3,000 sq. feet

NUMBER OF EMPLOYEES
7

ESTABLISHED
1982

Surface Assembly System Inc.

**41 INDUSTRIAL PARKWAY
UNIT 2
AURORA, ONTARIO
L4E 3Y5**

**TELEPHONE
(416) 773-3237**

**CHIEF EXECUTIVE
IAN CHAPPELL**

**CONTACT
IAN CHAPPELL, PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

Modern building, two separate shops -
1) through hole 2) SMT line.

MAJOR PRODUCTS & SERVICES

- * board assembly
- * through hole assembly
- * surface mount assembly

SIZE OF FACILITY

5,000 sq. feet

NUMBER OF EMPLOYEES

18

ESTABLISHED

1986

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods

PCB ASSEMBLY

- *wave soldering
- *surface mount capability
- *prototype quantities

Surface Mount Technology Centre

S.M.T. CENTRE
183 AMBER STREET
MARKHAM, ONTARIO
L3R 3B4

TELEPHONE
(416) 479-1810

CHIEF EXECUTIVE
PAUL WALKER

CONTACT
GARY WALKER, OPERATIONS MANAGER

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * design
- * manufacturing
- * assembly
- * equipment sales

AFFILIATE NAMES

AIRTRON - TRIBOTIC
PALITECH ELECTRONICS

SIZE OF FACILITY

20,000 sq. feet

NUMBER OF EMPLOYEES

75

ESTABLISHED

1985

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *distributor network investigation
- *physical distribution advice

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *photo tool manufacturing

Sysdoc International Inc.

**41 BRITAIN STREET
SUITE 300
TORONTO, ONTARIO
M5A 1R7**

**TELEPHONE
(416) 362-8477**

**CHIEF EXECUTIVE
DIANA PATTERSON**

**CONTACT
LEN ROSEN, VICE-PRESIDENT**

COMPANY PROFILE

SUMMARY PROFILE

An information design consulting firm with offices in Toronto and Ottawa, doing technical writing, policy and procedures, advertising design and copywriting, proposal and prospectus writing, business plans, annual reports, mll spec writing, catalogues.

MAJOR PRODUCTS & SERVICES

- * technical writing including system documentation, policy and procedure manuals
- * advertising writing and design
- * market research and business plan development
- * proposal and prospectus writing

AFFILIATE NAMES

LAMARR ADVERTISING

SIZE OF FACILITY

1,700 sq. feet

NUMBER OF EMPLOYEES

9

ESTABLISHED

1976

SERVICES

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export
- *distributor network investigation
- *physical distribution advice

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

T.J. Mousseau Tech. Serv. & Elect. Lab.

**P.O. BOX 5338
STATION F
OTTAWA, ONTARIO
K2C 3J1**

**TELEPHONE
(613) 226-4302**

**CHIEF EXECUTIVE
T.J. MOUSSEAU**

**CONTACT
T.J. MOUSSEAU, OWNER**

COMPANY PROFILE

SUMMARY PROFILE

A specialist in design of non-magnetic and precision composite materials.

MAJOR PRODUCTS & SERVICES

- * design of custom instruments and low power VHF data links
- * integrated electromechanical systems for environmental extremes
- * VHF circuit design, transducers

**SIZE OF FACILITY
400 sq. feet**

**NUMBER OF EMPLOYEES
0**

**ESTABLISHED
1974**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *thermal design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Tasque Technologies

**141 DON PARK ROAD
MARKHAM, ONTARIO
L3R 1C2**

**TELEPHONE
(416) 475-6241**

**CHIEF EXECUTIVE
EDWARD R. STEGER**

**CONTACT
JACK N. VINCKEN, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Fully automated contract assembly for PCB's with axial, radial and dip insertion, full SMD facility with high speed and low speed/high accuracy placement.

MAJOR PRODUCTS & SERVICES

- * PCB assembly
- * surface mount
- * bare-loaded board testing
- * fixture building

**PARENT COMPANY
STETRON INTERNATIONAL INC.**

AFFILIATE NAMES

**CER-KCAL LABS
STETRON INT. USA
STETRON INT. JAPAN
STETRON INT. KOREA
STETRON INT. TAIWAN**

**SIZE OF FACILITY
13,000 sq. feet**

**NUMBER OF EMPLOYEES
30**

**ESTABLISHED
1988**

SERVICES

DESIGN - OTHER

- *manufacturability analysis/prod. methods
- *tool maker

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *surface mount capability
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *environmental and vibration testing
- *certification - UL
- *certification - CSA
- *calibration services

MARKET CONSULTING

- *distributor network investigation

DOCUMENTATION SERVICES

- *PC artwork service using CAD

**106 SCHNEIDER ROAD
KANATA, ONTARIO
K2K 1Y2**

**TELEPHONE
(613) 592-3335**

**CHIEF EXECUTIVE
D. W. GOSS**

**CONTACT
RIC LIGHTFOOT, VICE PRESIDENT**

COMPANY PROFILE

**PARENT COMPANY
HOVEY INDUSTRIES LTD.**

**ESTABLISHED
1976**

SERVICES

PCB ASSEMBLY

- *prototype quantities**
- *final assembly and wiring**

METAL FABRICATION

- *standard "off the shelf" enclosures**
- *large and/or custom enclosures & frames**
- *parts - brake and form**
- *prototyping**
- *long production runs**

ELECTRICAL TESTING SERVICES

- *certification - UL**
- *certification - CSA**

Tectrol Inc.

**39 KODIAK CRESCENT
DOWNSVIEW, ONTARIO
M3J 3E5**

**TELEPHONE
(416) 630-8108**

**CHIEF EXECUTIVE
MARTIN GELB**

**CONTACT
PAUL CARROLL, MANAGER - MARKETING**

COMPANY PROFILE

SUMMARY PROFILE

Toronto (Downsview) - 80,000 sq. ft. -
main office - fully automated design,
manufacturing, assembly & test.
Montreal - 16,000 sq. ft. - branch
plant - manufacturing, assembly & test.
Surface mount capability by early 1990.

MAJOR PRODUCTS & SERVICES

- * PCB assembly
- * DC/DC converters & switch mode power supplies

AFFILIATE NAMES

TECTROL INC., QUEBEC

SIZE OF FACILITY

96,000 sq. feet

NUMBER OF EMPLOYEES

260

ESTABLISHED

1968

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *manufacturability analysis/prod. methods

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *electromagnetic characterization
- *environmental and vibration testing
- *certification - UL
- *certification - CSA

Tektron Equipment Corporation

230 ARVIN AVENUE
STONE CREEK, ONTARIO
L8E 2L8

TELEPHONE
(416) 662-7820

CHIEF EXECUTIVE
EUGENE TEKATCH

CONTACT
MICHAEL RUDDY, MARKETING MANAGER

COMPANY PROFILE

SUMMARY PROFILE

Manufacturing facilities in Stoney Creek, Ont; complete PCB services include design, prototype, and volume PCB production, assembly and test.

MAJOR PRODUCTS & SERVICES

- * single and double sided PCB's
- * circuit card assembly
- * PCB design and testing
- * equipment and supplies to make prototype PCB's

PARENT COMPANY
TEKGEN DEVELOPMENTS

SIZE OF FACILITY
35,000 sq. feet

NUMBER OF EMPLOYEES
85

ESTABLISHED
1973

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *circuit simulations
- *mechanical design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *multi-layer
- *surface mounted devices
- *line width 10 mil or less
- *flexible boards
- *polymer thick film

PCB MANUFACTURER

- *single sided / two sided
- *line width 10 mil or less
- *flexible boards
- *polymer thick film
- *prototype development
- *electrical testing

PCB ASSEMBLY

- *automatic insertion axial
- *wave soldering
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *certification - CSA

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.
- *photo tool manufacturing

Telcom Research

1163 KING ROAD
BURLINGTON, ONTARIO
L7R 3X5

TELEPHONE
(416) 681-2450

CHIEF EXECUTIVE
TOM BANTING

CONTACT
ROSE TING, GENERAL MANAGER

COMPANY PROFILE

MAJOR PRODUCTS & SERVICES

- * time code generators
- * telephone data collection equipment
- * electronic product design
- * custom electronics manufacturing

SIZE OF FACILITY
2,000 sq. feet

NUMBER OF EMPLOYEES
8

ESTABLISHED
1972

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *use of CAD in engineering design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *communications
- *process control

CIRCUIT BOARD DESIGN

- *single sided / two sided

PCB ASSEMBLY

- *prototype quantities
- *final assembly and wiring

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Tele-Radio Systems Ltd.

**121 HANLAN ROAD
WOODBIDGE, ONTARIO
L4L 3P5**

**TELEPHONE
(416) 851-2231**

**CHIEF EXECUTIVE
JIM HUNTER**

**CONTACT
RODGER GARDNER, V. P. OPERATIONS**

SERVICES

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing
- *environmental and vibration testing

COMPANY PROFILE

SUMMARY PROFILE

Manufacture, distribute and service Datacom/Telecom products and systems - manufacture electronic assemblies under contract for the Telecom/Datacom, utilities and avionics industries.

MAJOR PRODUCTS & SERVICES

- * data communications equipment
- * telecommunications equipment
- * sub contract mfg. electronic assemblies
- * third party service data & Telecom equipment

SIZE OF FACILITY

30,000 sq. feet

NUMBER OF EMPLOYEES

100

ESTABLISHED

1958

Tie Communications Canada Inc.

**7550 BIRCHMOUNT ROAD
MARKHAM, ONTARIO
L3R 6C6**

**TELEPHONE
(416) 475-5577**

**CHIEF EXECUTIVE
J.T. ELLIOTT**

**CONTACT
CLIVE HUIZINGA, V.P. OPERATIONS**

COMPANY PROFILE

SUMMARY PROFILE

TIE's head office at Markham designs
PABX systems; its Sherbrooke (Que.)
plant manufactures PABX and key systems

MAJOR PRODUCTS & SERVICES

- * key telephone systems
- * PABX systems
- * PCB assembly/testing under subcontract

PARENT COMPANY

TIE/COMMUNICATIONS INC.

SIZE OF FACILITY

53,000 sq. feet

NUMBER OF EMPLOYEES

550

ESTABLISHED

1980

SERVICES

PCB ASSEMBLY

- *automatic insertion dips
- *automatic insertion axial
- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

ELECTRICAL TESTING SERVICES

- *passive component testing
- *integrated circuit testing

Topping Electronics Ltd.

**1320 ELLESMERE ROAD
SCARBOROUGH, ONTARIO
M1P 2X9**

**TELEPHONE
(416) 291-7707**

**CHIEF EXECUTIVE
F. V. TOPPING**

**CONTACT
JOHN C. ILLINGWORTH, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Specializing in developing and producing electronic equipment since 1956.

MAJOR PRODUCTS & SERVICES

- * in-house CAD system
- * electronics development laboratory
- * electronics design and prototyping
- * electronics product manufacturing and testing
- * microprocessor development system
- * micro-memories programming
- * engineering microcontroller prototypes
- * production and test of microcontrollers
- * traffic signal control equipment
- * pipeline inspection equipment
- * frequency synthesizers
- * multi-channel tape recorders
- * telecommunications equipment

**SIZE OF FACILITY
10,000 sq. feet**

**NUMBER OF EMPLOYEES
10**

**ESTABLISHED
1956**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *power supply design
- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *packaging design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *operating systems
- *real time applications
- *communications

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *line width 10 mil or less
- *flexible boards

PCB ASSEMBLY

- *programmable testing
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *prototyping

ELECTRICAL TESTING SERVICES

- *environmental and vibration testing

DOCUMENTATION SERVICES

- *PC artwork service using CAD

Unified Engineering & Contracting Inc.

**618 WENTWORTH STREET NORTH
HAMILTON, ONTARIO
L8L 5X6**

**TELEPHONE
(416) 529-7770**

**CHIEF EXECUTIVE
V. (WALTER) VUCKOVECKI**

**CONTACT
V. VUCKOVECKI, DIR. ENGINEERING & SALES**

COMPANY PROFILE

SUMMARY PROFILE

A multigrade engineering firm involved in the development, design and manufacture of custom-designed industrial equipment and field installation

MAJOR PRODUCTS & SERVICES

- * metal parts and hardware for braking systems
- * custom design industrial heat treating equipment
- * field services - equipment repairs/overhaul
- * material handling equipment and large bag fillers

**AFFILIATE NAMES
FSW LTD.**

**SIZE OF FACILITY
10,000 sq. feet**

**NUMBER OF EMPLOYEES
20**

**ESTABLISHED
1980**

SERVICES

ENGINEERING DESIGN

- *mechanical design
- *use of CAD in engineering design

DESIGN - OTHER

- *enclosure design
- *tool maker

PLASTIC ENCLOSURES,PARTS,FIXTURES

- *large parts - housings, enclosures

METAL FABRICATION

- *large and/or custom enclosures & frames
- *aluminum parts and enclosures
- *enclosures: to CSA/EEMAC/UL standards
- *parts - stamped/pressed
- *parts - brake and form
- *prototyping
- *jigs/fixtures, tools/dies, molds

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

Videtics Ltd.

419 PHILLIP STREET
SUITE 7
WATERLOO, ONTARIO
N2L 3X2

TELEPHONE
(519) 885-6852

CHIEF EXECUTIVE
DAVID KELLEY

CONTACT
BILL CLINCH, PRESIDENT

COMPANY PROFILE

SUMMARY PROFILE

Videtics Ltd., in Waterloo, Ont., manufactures and sells digital image analysis and image processing systems in both colour and monochrome, for use with personal computers and any standard video input.

MAJOR PRODUCTS & SERVICES

- * image analysis systems: particle counting and measurement in high resolution (512 x 1024) and true colour
- * image processing systems: in colour and monochrome at high resolution (512 x 1024)
- * custom software development: for image analysis, processing, transmission and other.

PARENT COMPANY

VIDETICS INTERNATIONAL CORP.

SIZE OF FACILITY

3,000 sq. feet

NUMBER OF EMPLOYEES

10

ESTABLISHED

1985

SERVICES

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS

- *real time applications
- *communications
- *process control

Wasteneys Associated Consultants Ltd.

**SUITE 202
190 MACLAREN STREET
OTTAWA, ONTARIO
K2P 0L6**

**TELEPHONE
(613) 233-7791**

**CHIEF EXECUTIVE
GEOFFREY WASTENEYS**

**CONTACT
GEOFFREY WASTENEYS, PRESIDENT**

SERVICES

ELECTRICAL TESTING SERVICES

- *certification - UL
- *certification - CSA
- *certification - DOC

MARKET CONSULTING

- *non-consumer market sizing - Canada
- *non-consumer market sizing - export
- *distributor network investigation
- *physical distribution advice

COMPANY PROFILE

SUMMARY PROFILE

A business consulting firm, providing advice and assistance on government regulations and standards (certification by DOC, CSA, application of customs duties, tax, and immigration of employees); and market research

MAJOR PRODUCTS & SERVICES

- * assistance with certification by DOC and CSA
- * customs duties and sales tax
- * market research
- * immigration
- * marking and labelling

**SIZE OF FACILITY
480 sq. feet**

**NUMBER OF EMPLOYEES
3**

**ESTABLISHED
1959**

Wheatfield Instrument Corp. Ltd.

**16 EDILOU DRIVE
ETOBICOKE, ONTARIO
M8W 4B2**

**TELEPHONE
(416) 259-1262**

**CHIEF EXECUTIVE
GREGORY P. WOWCHUK**

**CONTACT
GREGORY P. WOWCHUK, PRESIDENT**

COMPANY PROFILE

**ESTABLISHED
1986**

SERVICES

ENGINEERING DESIGN
*electronic circuit design

DESIGN - OTHER
*enclosure design

SOFTWARE DESIGN SYSTEMS AND APPLICATIONS
*real time applications
*simulation

CIRCUIT BOARD DESIGN
*single sided / two sided
*multi-layer

IC DESIGN AND EVALUATION
*prototyping

DOCUMENTATION SERVICES
*technical writing/manuals, etc.

Williams Machines (Div. Havlik Tech.)

**695 BISHOP STREET
CAMBRIDGE, ONTARIO
N3H 4V2**

**TELEPHONE
(519) 653-5774**

**CHIEF EXECUTIVE
DAVID M. GEE**

**CONTACT
DAVID M. GEE, PRESIDENT & CEO**

SERVICES

**DESIGN - OTHER
*tool maker**

**METAL FABRICATION
*aluminum parts and enclosures
*prototyping
*long production runs
*jigs/fixtures, tools/dies, molds**

COMPANY PROFILE

SUMMARY PROFILE

Conventional and CNC machining facilities with assembly and welding capability.

MAJOR PRODUCTS & SERVICES

- * precision machining
- * custom fabricating
- * special assembly

PARENT COMPANY

DERLAN INDUSTRIES LTD., TORONTO

AFFILIATE NAMES

**MATERIAL PROCESSING DIVISION OF HAVLIK
TECHNOLOGIES INC.**

**VIS-U-RAY TESTING LIMITED, SUBSIDIARY OF
HAVLIK TECHNOLOGIES INC.**

SIZE OF FACILITY

75,000 sq. feet

NUMBER OF EMPLOYEES

116

ESTABLISHED

1919

Zavitz Technology Inc.

**14 TODD ROAD
GEORGETOWN, ONTARIO
L7G 4R7**

**TELEPHONE
(416) 453-2252**

**CHIEF EXECUTIVE
PETER KUZAK**

**CONTACT
LESTER HOGAN, GENERAL MANAGER**

COMPANY PROFILE

SUMMARY PROFILE

Many large well equipped facilities in Ontario and Quebec.

MAJOR PRODUCTS & SERVICES

- * board house
- * assembly house
- * sequenser - (timers) of our own design

**PARENT COMPANY
ZAVITZ - MTL**

AFFILIATE NAMES

**CYBERNEX - OTTAWA
CANAMTEL SUPPLY LTD.
BRENT-CYBERNEX - ENGLAND**

**SIZE OF FACILITY
20,000 sq. feet**

**NUMBER OF EMPLOYEES
15**

**ESTABLISHED
1979**

SERVICES

ENGINEERING DESIGN

- *electronic circuit design
- *electrical circuit design
- *thermal design
- *power supply design
- *circuit simulations
- *mechanical design
- *mechanical analysis

CIRCUIT BOARD DESIGN

- *single sided / two sided
- *line width 10 mil or less

IC DESIGN AND EVALUATION

- *prototyping

PCB MANUFACTURER

- *single sided / two sided
- *line width 10 mil or less
- *prototype development
- *electrical testing

PCB ASSEMBLY

- *wave soldering
- *programmable testing
- *prototype quantities
- *final assembly and wiring

METAL FABRICATION

- *prototyping

ELECTRICAL TESTING SERVICES

- *certification - CSA

DOCUMENTATION SERVICES

- *PC artwork service using CAD
- *technical writing/manuals, etc.

DIRECTORY OF

**Electronics
Design
Consulting
and
Subcontracting
Services**
IN ONTARIO

entre- preneurial centres

in Ontario

ENTREPRENEURIAL CENTRES IN ONTARIO

These centres provide business counselling, incubator and other entrepreneurial services to firms requiring support in these areas:

- Eastern Ontario Centre for Entrepreneurship
Suite 100
275 Ontario Street
KINGSTON, Ontario K7K 2X5
Angus Ross, Executive Director
(613) 546-2777
- Enterprise York
Faculty of Administrative Studies
Room 230C
York University
4700 Keele Street
NORTH YORK, Ontario M3J 1P3
Douglas Johnstone, General Manager
(416) 736-5091
- North Bay Centre of Entrepreneurship
Canadore College and Nipissing University
100 College Drive
Box 5001
NORTH BAY, Ontario P1B 8K9
Peter Sheppard, Co-ordinator
(705) 474-7600
- Ryerson Centre of Entrepreneurship
Room B-818A, Business Building
285 Victoria Street
TORONTO, Ontario M5B 2K3
(416) 979-5325
- Centennial College Centre of Entrepreneurship
Room C2-19
41 Progress Court,
Box 631, Station "A"
SCARBOROUGH, Ontario M1K 5E9
David Jackson, Director
(416) 439-7180 ext. 2608
- Centre of Entrepreneurship for the Northwest
Confederation College
Box 398
THUNDER BAY, Ontario P7C 4W1
Graham Clayton, Program Development Officer
(807) 475-6363

Canada