

**QUEBEC'S MICROELECTRONIC  
INDUSTRY DIRECTORY**

**2012**



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Every effort has been made to include all companies offering subcontracting services in microelectronics. The information in this guide is assumed to be accurate, but we cannot be held responsible for any error or omission. For any correction, addition or more information, please contact:

François Verdy Goyette, MBA  
General Manager

**Center for Innovation in Microelectronics of Quebec (CIMEQ)**

Tel. : 450 971-7820 ext. 503

[fverdyyoyette@cimeq.qc.ca](mailto:fverdyyoyette@cimeq.qc.ca)

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# 1- SECTOR PROFILE

## Introduction

This document lists companies that offer subcontracting services for the development and assembly of ITC (information technologies and communication) equipment. Also included are microelectronic companies that develop new processes and manufacturing equipment.

Electronic components are semiconductors (microcircuits, power transistors, diodes, etc.), hybrid and printed circuit boards, connectors, condensers, resistors, switches, relays and transformers.

In this document, companies are classified in the following six categories:

- ⇒ Design of electronic systems and components – Companies and research entities offering services on a sub-contracting basis for the development of electronic circuits, printed circuit boards, integrated circuits and design tools;
- ⇒ Active components or semiconductors - Integrated circuits manufacturers, MEMS (Micro Electro Mechanical Systems), fabless (companies that subcontract the production of their integrated circuits), chipless (companies that develop and market virtual components to be integrated in Systems-on-chips), integrated circuits packaging facilities, laser diodes manufacturers, and producers of hybrid circuits, masks, design tools and process;
- ⇒ Passive components – Manufacturers of connectors, electronic cables, transformers, switches, etc.;
- ⇒ Printed circuit boards;
- ⇒ Electronic manufacturing services (EMS);
- ⇒ Microelectronic production and test equipment, including chemicals required within the production process.

## Industry outlook

Microelectronics is at the heart of the knowledge-based economy and an enabling technology for most consumer goods. The continued development of new technologies is mandatory for every country to remain competitive and create wealth. This industry is based on high value knowledge workers that make it attractive for new investments from foreign multinational looking for skill professionals.

The global market for the semiconductor industry has increased significantly. According to the Semiconductor Industry Association (SIA), that market was US\$1,5 billion in 1965, US\$ 25 billion in 1985, US\$ 200 billion in 2000 and US\$299.5 billions in 2011.

That grow is based on an ever growing use of microelectronic devices and smart sensors in intelligent products, such as smart phones, tablets, car driver assistance systems, energy management systems, smart grid, networked sensors, etc.

Microelectronics is the driver behind smart phone and tablet to integrate an increasing number of added value applications that were available only on personal computer in year 2000, without mobility.

In reference to Moore's law, the industry develops system that gain in performance using fewer semiconductor devices. Using nanometric-manufacturing process, it is now possible to produce microcircuit that integrates more than one billion logic gates. With that level of performance, it is now possible to develop product that has increasing performance like intelligent microsystems for many new market applications in energy, health and transport.

In addition to Moore's law, which state that the number of gates on a semiconductor double every 24 month, there is the *More than Moore* statement, which is related to the packaging process for the addition of MEMS (Micro Electro Mechanical System) or sensors. That technology is behind the development of intelligent systems. MEMS are used to generate an electric signal from a temperature reading, or pressure, acceleration, positioning and an increasing number of new parameters for consumer application, medical, transport, security, etc. Products that are currently using them are tablets, smart phones, and automotive driver assistance systems.

The microelectronic industry has the potential, as an enabling technology, to contribute to the improvement of our social 21<sup>st</sup> century challenges which are in relation to health expenses, ageing of our population, security enhancement, energy efficiency, environment and traffic management.

In 2011, according to the SIA, the growth for MEMS and microprocessors is generated by the market dynamism for smart phones and tablets. Even though the market for MEMS still relatively small at US\$ 8 billion in 2011, its grow rate was 15.5%, which is impressive compare to 0.8% for the whole semiconductor market.

## World trends

The microelectronic industry competitiveness is worldwide and global. Whatever the company nationality, the investment strategy is based on market proximity and territory attractiveness.

Even though most of the high volume production of electronic product is concentrated in Asia, production of low and medium volume high added value equipment still take place in North America and Europe. These markets are defence, medical, aerospace, embedded systems, circuit design and system integration.

United States, Canada and Europe are importing most of their high technology products from other countries. China is the largest market for semiconductors based on the concentration of major EMS (Electronic Manufacturing Services) in Asia-Pacific.

Since 2008, the worldwide production of semiconductors by region has remained relatively stable at 69% in Asia, 18% in America and 13% in Europe. However, en Asia, a production migration took place from Japan to South-eastern Asia. In 2001, South-eastern Asia production was 54% compared to 45% in 2008. In Japan, the level of production was 15% in 2011 compared to 24% in 2008.

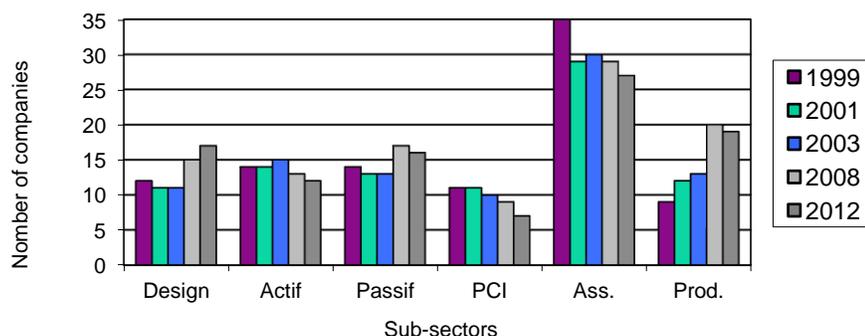
United States remains a key region for semiconductor in spite of a lower level of production. If we consider all the fabless companies like Broadcom, Qualcomm and all the others, US based companies control almost half of the world production.

In New York State, more than US\$11 billions have been invested since 2002 for the creation of Albany Nanotech Centre, which is at the origin of the Northeastern microelectronic cluster development located from East Fishkill, South of Albany, to

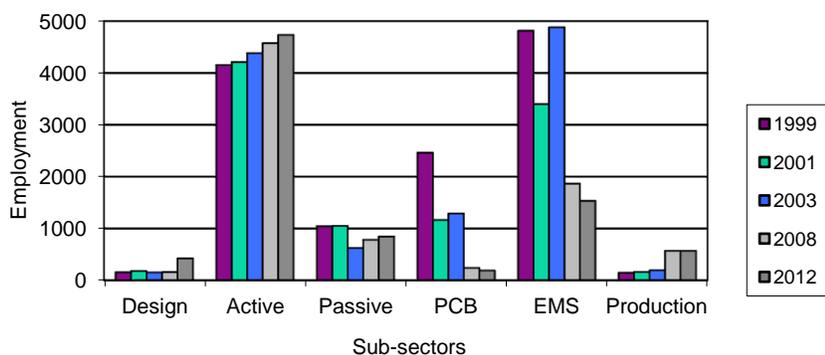


In 2012, the Quebec subcontracting industry for the design and manufacture of electronic components and systems has a total of 97 companies, compared to 103 in 2008. Globally, this industry provides employment to 8291 persons in 2012, compared to 8101 in 2008. Figures 1 and 2 show the concentration and the growth of that industry according to the number of companies and employees.

**Figure I : Companies by sub-sector**



**Figure II: Employment by sub-sectors**



Even though the Quebec's microelectronic cluster is characterized by a large number of small companies; there are some major players that are recognized internationally. Almost two third (60%) of all the jobs are generated by 10 companies which represent 10% of the total number of companies, as shown in table III.

Enterprises	Industrial activity	Employment	Location
IBM	Chip Packaging	More than 2 500	Bromont
Matrox	Graphic Processor	500 to 1000	Montreal
Teledyne-DALSA	Silicon Foundry	300 to 500	Bromont
Varitron	Component Assembly	100 to 300	Longueuil
Excelitas	Photo-Diode	100 to 300	Vaudreuil
Avena	Test Equipment	100 to 300	Montréal
C-MAC	Hybrid Circuit	100 to 300	Sherbrooke
Gentec	Component Assembly	100 to 300	Quebec
Delastek	Component Assembly	100 to 300	Grand-Mere
Octasic	Multimedia Microsystem	100 to 300	Montreal

**Table III: Ten largest companies in Quebec**

## **DESIGN & R&D**

In 2012, 17 companies in Quebec are offering design services for integrated circuits, printed circuit boards and electronic systems. They provide employment to 422 persons. In 2008, 15 companies with 160 employees were involved in that field. Most of these organizations are offering turnkey solution for system development. The expertise is mostly in niche market such as medical, security, industrial automation...

The major event since 2008 in that sector is the creation of the C2MI in Bromont by IBM, Teledyne-DALSA and University of Sherbrooke.

## **ACTIVE COMPONENTS**

In 2012, twelve companies are involved in this sector providing employment to 4735 persons. For comparison purposes, 4575 persons were involved in that sector in 2008. The leaders in that field are IBM, Teledyne-DALSA and Matrox. Jobs in design and active components are high value added employment.

IBM is heavily investing year after year in Bromont to maintain their leadership in microelectronic packaging and has gained an enviable reputation worldwide. Their facility uses wire soldering, ball grid arrays or thermo-compression to assemble chips on sockets. This plant also offers various interconnects for card assembly, such as copper, Kovar, CuSil, J-leaded and Gullwing.

Teledyne-DALSA operates a silicon foundry to process integrated circuits mostly for mix mode application (Analog and Digital), image sensors and MEMS.

As a general rule, successful companies involved in active components are heavily investing in the development of new products that address the international market.

## **PASSIVE COMPONENTS**

For passive components, 16 companies provide employment to 844 persons in 2012. These companies are active mainly in transformers, connectors and cables production. For 2008, 17 companies were involved in the production of passive components providing employment to 782 persons. From 2008, that sector grew by 8% based on the dynamism of niche applications such as high value custom cable and components.

## **PRINTED CIRCUIT BOARDS**

There are 7 companies specialize in printed circuit boards (PCB) in Quebec. For 2012, they collectively employ 189 persons. For comparison purpose, there were 9 enterprises with 239 employees in 2008. For PCB, the level of international competition is global and increasingly fierce.

## **ELECTRONIC MANUFACTURING SERVICES**

Companies involved in EMS are the usual entry doors to manufacture a product. Even though high volume production is concentrated in Asia, most low to medium production level of high value-added products for defence, medical and aerospace applications are assemble in America and Europe.

For Quebec, since 2003, the number of companies involved in EMS offering is stable at 30 enterprises. The EMS sector provides employment to 1533 persons in 2012 compare to 1866 employees in 2008.

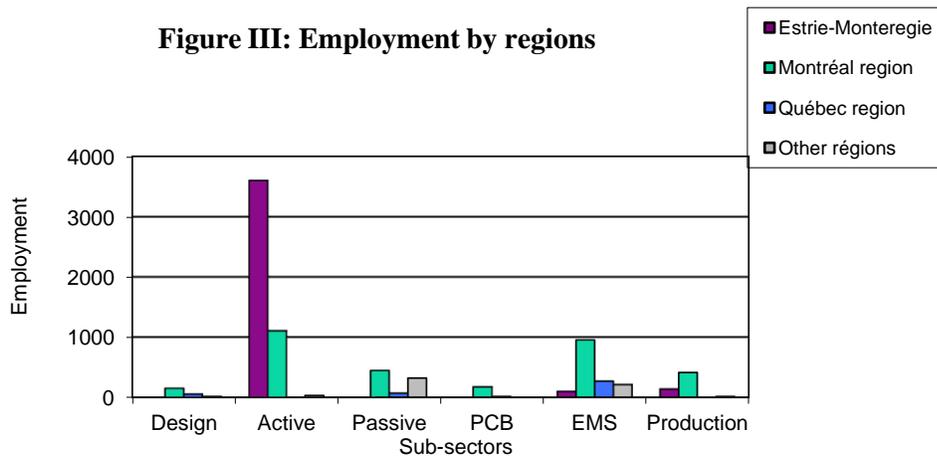
## MANUFACTURING PROCESS AND TESTS

For this sector of activities, the number of companies and the level of employment have remained relatively stable since 2008 at twenty companies and 568 employees.

The contribution of that sector is important since the market is worldwide. It involved strategic know how that enhanced the performance of microelectronic components and systems.

## EMPLOYMENT BY ACTIVITY AND GEOGRAPHIC AREAS IN QUEBEC

Figure III shows employment by activity sectors and geographic areas in Quebec. Worth noting that Bromont's Technoparc in Monteregie (South of Montreal) has 3 500 jobs in microelectronics and is the only Technoparc specialized in microelectronics in Quebec.



Companies that have demonstrated a growth potential over the last four years are in the fabless, chipless, EMS high-end assembly, test and production tools areas.

## Conclusion

Over the past decade, escalating costs and remarkable technological advancement have reshaped the microelectronic industry worldwide. The number of logic gates per microelectronic circuit has increased from 10 million to 1 billion. That complexity required new very high-level design tools to fully exploit the potential of the technology and new packaging technologies to interface the external world.

The growing potential of the microelectronic sector is based on the proliferation of microelectronic components into a variety of other technologies. The growing potential of companies involved in that sector is based on their potential to innovate, to train their employees and to develop market driven solution at a competitive cost.

In that context, only companies that work in partnership with supportive research infrastructure have the potential to fully exploit Microsystems market opportunities. The mandate of these research organizations is to encourage innovation, access to production infrastructure, venture capital, and local and international market for the 21<sup>st</sup> century challenges which are related to health expenses, ageing of our population, security enhancement, energy efficiency, environment and traffic management.

Based on its proximity to the microelectronic Northeastern cluster, by the creation of the C2MI, Quebec and Canada have decided to become an integral constituent of that high technology Corridor. The C2MI project will bring together 250 industry and university researchers, local and international, in a modern infrastructure to develop the next generation of microchips. Its role will be to choose technologies for cutting out the microchips, linking those electrically to innovative packages (like 3D packs), managing heat dissipation, and testing them and preparing them for shipment. The Centre will also work on designing packages for future generations of microelectronic systems (MEMS). That centre provides the opportunity to develop microsystems for many applications such as information technologies, telecommunication, automotive, aerospace and health.

## **2- DESIGN AND R&D SERVICES**

Companies and research entities offering services on a sub-contracting basis for the development of electronic circuits, printed circuit boards, integrated circuits and design tools.

# AmeriSys

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Address : 20 Place du Medoc  
Montréal (Quebec) H9H 5S3  
CANADA

Telephone : 514-620-8522  
Fax : 514-620-3900  
Web Site : [www.amerisys.com](http://www.amerisys.com)

Contact : Mr. Yvan Reede  
President

E-Mail : [info@amerisys.com](mailto:info@amerisys.com)

Year of foundation : 1991

## **Description of activities**

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AmeriSys is a consulting firm specialized in problem solving where "high-tech" solutions are of assistance. Consulting services include needs assessment, research, development, system design and technology transfers.

AmeriSys has several years of experience in the design and manufacturing of electronic systems and software. This experience allows customer to prosper in the rapidly changing field of digital and analog electronics, including FR, antennas, broadband telecommunications, computers, microcontrollers and software.

The company also offers turnkey EMS services.

## C2MI (MiQro Innovation Collaborative Centre)

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Address : 45 de l'Aéroport Blvd.  
Bromont (Quebec) J2L 1S8  
CANADA

Telephone : 450-534-8000 ext. 66301  
Fax : 514-534-5760

Web Site : [www.c2mi.ca](http://www.c2mi.ca)

Contact : Mr. Vincent Fortin  
Vice-President, Business Development

E-Mail : [Vincent.Fortin@c2mi.ca](mailto:Vincent.Fortin@c2mi.ca)

Year of foundation : 2012

### Description of activities

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The C2MI is an international centre of excellence for electronic assembly research. The centre will carry out industrial R&D in Bromont on the packaging of microsystems and electronic microchips. The mission of the MiQro Innovation Centre is to be an international pioneer in packaging the next generation of microchips. Its role will be to develop new technologies for cutting out the microchips, linking those electronically to innovative packages (like 3D packs), managing heat dissipation, testing them and preparing them for shipment. The Centre will also work on designing packages for future generations of microelectromechanical systems (MEMS).

Based on successful university-industry partnerships, the C2MI plays an essential role in the microelectronic ecosystem of the North-East Continent, a key player in this field of research.

## **CIMEQ (Center for Innovation in Microelectronics of Quebec)**

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Address : 150 Duquet St.  
Sainte-Therese (Quebec) J7E 5B3  
CANADA

Telephone : 450-971-7820  
Fax : 450-971-7802  
Web Site : [www.cimeq.qc.ca](http://www.cimeq.qc.ca)

Contact: Mr. François Verdy-Goyette  
General Manager

E-Mail : [fverdYGoyette@cimeq.qc.ca](mailto:fverdYGoyette@cimeq.qc.ca)

### **Description of activities**

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CIMEQ (Center for Innovation in Microelectronics of Quebec) is a CCTT (technology transfer collegial centre) specialized in microelectronics that provides guidance to its clients (mostly SME) on how to innovate through technical assistance, product development and training.

Being accredited by the Quebec government as a CCTT, tax credit funding is available for most projects.

CIMEQ provides the following services:

- ⇒ Electronic and software design
  - On-board systems (integrated data systems)
  - Networked multipoint control systems
    - Wired : LonWorks<sup>®</sup>, BACnet<sup>®</sup>, ModBus, CAN, IP
    - Wireless : Wi-Fi, Bluetooth<sup>®</sup>, Zigbee<sup>®</sup>, cellular
- ⇒ Schematic design, PCB, prototype production
- ⇒ Firmware and user interface programming
- ⇒ Microcontroller, microprocessor, RFI (Radio Frequency Identification), GPS
- ⇒ Intelligent transportation
- ⇒ Smart building : distributed intelligence
- ⇒ Envirotique<sup>®</sup> : energy efficiency

## Comport Data

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Address : 150 Authier St. suite 200  
Montreal (Quebec) H4M 2C6  
CANADA

Telephone : 514-340-1550  
Fax : 514-340-1126  
Web Site : [www.comport-data.com](http://www.comport-data.com)

Contact : Mr. Jacob Davidson  
President

E-Mail : [Jacob.Davidson@comport-data.com](mailto:Jacob.Davidson@comport-data.com)

Year of foundation : 1984

### Description of activities

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Comport Data is a microelectronic engineering design company offering analog, mixed-signal and digital IC design, layout, testing, manufacturing and consulting services, using CMOS, Bipolar, and BiCMOS technologies and processes.

The company specializes in advanced mixed-signal design and layout, basic microelectronic research, systems development, and related microelectronic support services. Markets served are telecom, optoelectronic, telephony and signal processing including low power, high voltage and high frequency applications. Comport Data engineers also provide microelectronic design and services to foundries and companies developing applications and standard cell libraries.

## Dextera Labs

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Address : 3175 Quatre-Bourgeois Blvd. suite. 104  
Quebec (Quebec) G1V 2K7

Telephone : 418-651-3383

Web Site: [www.dexteralabs.com](http://www.dexteralabs.com)

Contact : Mr. Gilles Chouinard  
President

E-Mail : [gilles@dexteralabs.com](mailto:gilles@dexteralabs.com)

Year of foundation : 2003

### Description of activities

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Dextera Labs offers engineering design services for customized electronic circuits and embedded systems using leading-edge technologies. With up to 25 years of experience in the design of electronic products and systems, our multi-disciplinary engineers can provide simple prototyping or complete system solutions, from concept to production, integrating electronic, software and enclosure designs. Dextera is specialized in high technology with a specific expertise in digital audio and video.

# DOLPHIN Integration

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Address : 2525 Daniel Johnson Blvd., suite 295  
Laval (Quebec) H7T 1S9  
CANADA

Telephone : 450-978-8885  
Fax : 450-978-8800

Web Site: [www.dolphin-integration.com](http://www.dolphin-integration.com)

Contact : Mr. Abel Belhaouane  
Operation Manager

E-Mail : [di-inc@dolphin-integration.com](mailto:di-inc@dolphin-integration.com)

Year of foundation (Qc) : 2007

## Description of activities

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Dolphin integration offers the following microelectronic services:

- ⇒ On site development team
- ⇒ Microelectronic system integration in full compatibility with the client development tools
- ⇒ Custom chipless design

## Exo Solution

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Address : 4482 Grande-Allée Blvd  
Boisbriand (Quebec) J7H 1R9  
CANADA

Telephone : 450-951-6951

Web Site : [www.exosolution.com](http://www.exosolution.com)

Contact : Mr. Marcel St-Jean  
President

E-Mail : [info@exosolution.com](mailto:info@exosolution.com)

Year of foundation : 2009

### **Description of activities**

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Exo solution offers electronic design services and prototype manufacturing.

# EXPLORA Technologies

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Address : 360 Franquet St. suite 20  
Quebec (Quebec) G1P 4N3  
CANADA

Telephone : 418-658-5556  
Fax : 418-263-5160

Web Site: [www.explora-tech.com](http://www.explora-tech.com)

Contact : Mr. Harold Vachon  
President

E-Mail : [info@explora-tech.com](mailto:info@explora-tech.com)

Year of foundation : 2002

## Description of activities

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Explora Technologies is a product design and development company specialized in portable and rugged electronic devices. The company offers outsourcing services in electronic design, software development and industrial design.

Explora has over 15 years of experience in designing products with analog and digital circuits for industrial and commercial custom equipments such as handheld computers, measure and test instruments, security and biometric units, emergency vehicle terminals and lighting control systems. Operating systems are based on different processors (ARM, X86) working on WinCE and their BSP (Board Supported Package): HARP (Highly Adaptable Reference Platform).

With rigor, flexibility and a reliable process, Explora designs up to the production startup, high quality industrial and consumer products, delivered on time. The company works with leading players in the industry and as such has acquired a great amount of valid experience for large-scale projects.

# Hardent

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Address : 450 St-Pierre St., suite 300  
Montreal (Quebec) H2Y 2M9  
CANADA

Telephone : 514-284-5252  
Fax : 514-284-5052

Web Site: [www.hardent.com](http://www.hardent.com)

Contact : Mr. Michel Turgeon  
Sales and Business Development

E-Mail : [mturgeon@hardent.com](mailto:mturgeon@hardent.com)

Year of foundation : 2002

Number of employees : 20

## **Description of activities**

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Hardent offers a range electronic design services, from FPGA design and DSP design, to embedded software development, hardware/software codesign and PCB design.

Hardent's electronic product development serves various industries, including optical and wireless communication, industrial control systems, avionics, automotive, and medical systems.

# Instadesign

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Address : 440 Armand- Frappier St., suite 240  
Laval (Quebec) H7V 4B4  
CANADA

Telephone : 450-682-1100

Web Site: [www.instadesign.com](http://www.instadesign.com)

Contact : Mr. Jean-François Garcia  
Business Development

E-Mail : [jfgarcia@instadesign.com](mailto:jfgarcia@instadesign.com)

Year of foundation : 1997 (Electronic)

## **Description of activities**

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Instadesign is a company specializing in product development, design, mechanical engineering and electronic. Their team is made up of more than 45 engineers, technicians and industrial designers with a high level of expertise in various fields of the manufacturing industry.

Every phase of product development, from the preliminary concept stage to production release, is overseen by product managers. Their capabilities include design, product development, prototyping, creating photorealistic images, 3D animations, designing brochures, and even manufacturing. Assisted by their network of partners both local and abroad, Instadesign is able to effectively manufacture prototypes and production parts, including electronics and software.

Instadesign goal is to work closely with their customers based on their specific needs by creating solid partnerships. The company strives to optimize work strategies and product development costs through fine-tuned, individually tailored service proposals ranging from managing an entire turnkey project to providing support in specific areas.

# Lyrtech

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Address: 2150 Cyrille-Duquet St.  
Quebec (Quebec) G1N 2G3  
CANADA

Telephone : 581-741-3256  
Fax : 418-877-7710

Web Site: [www.lyrtech.com](http://www.lyrtech.com)

Contact : Mr. Louis Bélanger  
General Manager

E-Mail : [louis.belanger@lyrtech.com](mailto:louis.belanger@lyrtech.com)

Year of foundation : 1984

## **Description of activities**

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Lyrtech is a high technology firm specialized in state of the art electronics, computer sector and signal processing.

Lyrtech's expertise is in quick turnaround development of DSP based prototypes used in electro-optical instruments.

# Microniks

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Address : 455 Michel-Jasmin St.  
Montreal (Quebec) H9P 1C2  
CANADA

Telephone : 514-377-6432

Web Site: [www.microniks.com](http://www.microniks.com)

Contact: Mr. Gilles Duchesne  
President

E-Mail : [info@microniks.com](mailto:info@microniks.com)

## **Description of activities**

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Microniks is a training center for the electronic industry. Their expertise is in electronic assembly, printed circuit board repair, inspection, ecodesign and dismantling and recycling end of life electric and electronic products.

# NOVO

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Address : 1180 Royale St., suite 200  
Trois-Riviere (Quebec) G9A 4J1  
CANADA

Telephone : 819-609-2688

Web Site : [www.novoelectronique.com](http://www.novoelectronique.com)

Contact : Mr. Yves Lemire  
Vice-President, Sales

E-Mail : [y.lemire@novoelectronique.com](mailto:y.lemire@novoelectronique.com)

Year of foundation : 2008

## **Description of activities**

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Novo is a team specialized in high technology product development that works closely with their customers. The company try to understand all aspect of your requirements in order to deliver a world class product.

# Primma Microtechnologies

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Address : 2905 de Celles  
Quebec (Quebec) G2C 1W7  
CANADA

Telephone : 418-932-0652  
Fax : 418-847-1961

Web Site : [www.primma.ca](http://www.primma.ca)

Contact : Mr. Pierre Richard  
Electronic designer

E-Mail : [prichard@primma.ca](mailto:prichard@primma.ca)

Year of foundation : 2008

## **Description of activities**

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Primma Microtechnologies is specialized in the development of electronic circuits. The company offers a broad range of services from the design phase, software development, circuit design, PCB layout, prototype assembly including functional and environment tests.

Primma offers turnkey solutions for electronic, software and mechanical design that may include project management and technical and user manuals writing.

# Productix Electronics

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Address : 1751 Richardson suite 6.115  
Montreal (Quebec) H3K 1G6  
CANADA

Telephone : 514-935-2121  
Fax : 514-939-6573

Web Site : [www.productix.com](http://www.productix.com)

Contact : Mr. Gilles Talbot  
President

E-Mail : [gtalbot@productix.com](mailto:gtalbot@productix.com)

Year of foundation : 2003

## Description of activities

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Productix Electronics is a consulting firm involved in the research and development of electronics and data processing. Their mission is to help our clients achieve their business objectives by offering superior quality hardware and software design.

The company has the following expertise:

- ⇒ Real time monitoring and control
- ⇒ Data acquisition
- ⇒ Short and medium range wireless communication
- ⇒ Software interface programming for PC
- ⇒ Support in drafting and obtaining Research and Development credits
- ⇒ Support in R&D type projects financing

# Sysacom R&D Plus

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Address : 275A Pierre-Le Gardeur Blvd.  
Repentigny (Quebec) J5Z 3A7  
CANADA

Telephone : 450-585-6396

Site internet: [www.sysacom.ca](http://www.sysacom.ca)

Contact : Mr. Denis Lachapelle  
President

E-Mail : [denisl@sysacom.ca](mailto:denisl@sysacom.ca)

Year of foundation : 1996

## **Description of activities**

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Sysacom R&D Plus is involved in electronic circuit design and real time software development. The company has been involved for more than fifteen year in turnkey electronic product development and consultation services with sixteen employees, (7 engineers). Sysacom's team is specialized in many fields namely: hardware design, signal processing, programmable circuits, imbedded software, visual C++ software and network software.

The company offers a wide range of services for microelectronic selection, evaluation and development assistance. Their activities are related to electronic system design, PCB layout, VDHL programmable circuits, DSP hardware and algorithms, embedded software and machine-machine WEB communications

# TAK Industrial Design

---

Address : 6300 Du Parc Avenue  
Montreal (Quebec) H2V 4H8  
CANADA

Telephone : 514-461-3010  
Fax : 514-277 8477

Web Site: [www.takdi.com](http://www.takdi.com)

Contact : Mr. Daniel Tassé  
President

E-Mail : [studio@takdi.com](mailto:studio@takdi.com)

## **Description of activities**

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Tak Design is an industrial design and mechanical development studio, recognized internationally for its innovative solutions. Its openness and adaptability to its clients' needs favour conceptualization of smart and durable products, based on the firm's design, and their development based on its engineering. The application sectors addressed by the company are mainly the industrial and consumer markets.

The company is involved in conceptual design, mechanical design, mechanical development, production documentation, files and drawings, prototyping and validation testing and pre-production follow-up.

### **3- ACTIVE SEMICONDUCTORS**

Integrated circuits manufacturers, MEMS (Micro Electro Mechanical Systems), fabless (companies that subcontract the production of their integrated circuits), chipless (companies that develop and market virtual components to be integrated in Systems-on-chips), integrated circuits packaging, laser diodes manufacturers, and producers of hybrid circuits, masks, design tools and process.

## C-MAC Microcircuits ULC

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Address : 3000 Industriel Blvd  
Sherbrooke (Quebec) J1L 1V8  
CANADA

Telephone : 819-821-4521  
Fax : 819-563-1167

Web Site: [www.cmac.com](http://www.cmac.com)

Contact : Mr. Alain Belzile

E-Mail : [AlainBelzile@cmac.com](mailto:AlainBelzile@cmac.com)

### **Description of activities**

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C-MAC Microcircuits in Sherbrooke is a manufacturer of hybrid circuits which is specialized on component assembly on printed circuit boards.

# CMC Electronics / Esterline

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Address : 600 Dr-Frederik-Philips Blvd  
Montreal (Quebec) H4M 2S9  
CANADA

Telephone : 514-748-3000  
Fax : 514-748-3100

Web Site: [www.cmcelectronics.ca](http://www.cmcelectronics.ca)

Contact: Mr. Bruno Dion  
Marketing Manager, Hybrid circuits

E-Mail : [Bruno.Dion@cmcelectronics.ca](mailto:Bruno.Dion@cmcelectronics.ca)

Year of foundation : 1903

## Description of activities

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CMC Electronics is a world leader in the design, manufacture, sales and support of high-technology electronic products for the aviation and global positioning markets. The company's principal locations are in Montreal, Quebec; Ottawa, Ontario; and Chicago, Illinois.

CMC Electronics employs more than 1 200 people worldwide of which 1 100 are located in Canada. The headquarter and hybrid group are located in Montreal.

The microelectronic hybrid group was created in 1964 and offers design and manufacturing services for the following :

- Hybrid microcircuits
- MCM - Multichip
- Hybrid circuit/Optical fiber mix
- Power conversion and magnetic products

The company is ISO 9001-2000 and MIL-PRF-38534, H class certified.

# CogniVue Corporation

---

Address : 25 Eddy St.  
Gatineau (Quebec) J8X 4B5  
CANADA

Telephone : 819-595-4999  
Fax : 819-595-2000

Web Site: [www.cognivue.com](http://www.cognivue.com)

Contact : Mr. Simon Morris,  
President

E-Mail : [sales@cognivue.com](mailto:sales@cognivue.com)

Year of foundation : 2005

## **Description of activities**

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CogniVue specializes in programmable System-on-Chip (SoC) products, delivering industry-leading programmable video and imaging solutions with differentiated features for low power, small footprint and cost-sensitive devices. CogniVue SoC, software and intellectual property products capture, analyze, and render superior video and images for smart cameras used in automotive vision systems and smart video monitoring markets.

Leveraging APEX™, a patented parallel processor foundation technology, and a suite of hardware and software intellectual property, CogniVue is now developing programmable SoCs called Image Cognition Processors (ICPs). In addition to capturing image and video information, CogniVue ICPs are capable of extracting application-specific information from a scene and interpreting the image data to make decisions or take actions based on the extracted data. With pattern recognition, detection and classification algorithms running on ICPs, smart cameras can detect objects and people at the rear of a vehicle and measure distance to alert the driver of an impending collision, or even recognize human hand gestures to control channel selection of a television, for example.

Founded by MtekVision Co. Ltd of South Korea, CogniVue continues its strong working partnership as an affiliate.

# Excelitas Technologies

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Address : 22 001 Dumberry Road  
Vaudreuil (Quebec) J7V 8P7  
CANADA

Telephone : 450-424-3300  
Fax : 450-424-3411

Web Site : [www.excelitas.com](http://www.excelitas.com)

Contact : Mr. Rafik Rabbat  
Site Manager

E-Mail : [Rafik.Rabbat@excelitas.com](mailto:Rafik.Rabbat@excelitas.com)

Year of foundation : 1940

## Description of activities

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Excelitas Technologies provides innovative, customized optoelectronics and advanced electronic systems that are used in many applications.

The company is involved in the following field of activities:

- ⇒ Lighting: Light Emitting Diodes (LEDs), Short Arc Xenon Lighting (Cermax® Xenon) and Power Supplies, Flash Lamps.
- ⇒ Detection: Photonic Detectors, Thermal Infrared Detectors, Emitters, CCD Cameras and Imagers.
- ⇒ Advanced Electronic Systems: Frequency Standards/Atomic Clocks, Energetic Safety Systems, Power Supplies, High-Energy Switching.

# IBM Canada

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Address : 23 de l'aeroport Blvd.  
Bromont (Quebec) J2L 1A3  
CANADA

Telephone : 450-534-6000  
Fax : 450-534-6880

Web Site : [www.ibm.com/ca/fr](http://www.ibm.com/ca/fr)

Contact : Mr. Erik Michaelsen  
Directeur de la fabrication

E-Mail : [emichael@ca.ibm.com](mailto:emichael@ca.ibm.com)

Year of creation (Bromont): 1972

## Description of activities

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The Bromont's facility is the largest IBM plant for semiconductor packaging and tests and one of the major Canadian exporter. The facility offers packaging and test services to IBM own products, like for the new POWER7 microprocessor (the most powerfull from IBM), and to many OEMs, including the major play station manufacturers.

# KONTRON Canada

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Address : 4555 Ambroise-Lafortune St.  
Boisbriand (Quebec) J7H 0A4  
CANADA

Telephone : 450-437-5682  
Fax : 450-437-8053

Web Site : [www.kontron.com](http://www.kontron.com)

Contact : Mr. Benoit Robert  
Marketing Manager

E-Mail : [benoit.robert@ca.kontron.com](mailto:benoit.robert@ca.kontron.com)

Year of creation: 1985

## **Description of activities**

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Kontron Canada is using state of the art technologies to design and manufacture processor based boards and systems that are integrated in communication, medical and industrial control equipments.

Kontron is offering a wide range of products, such as CompactPCI and ATCA/AMC platforms.

# Matrox Imaging

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Address : 1055 Saint-Regis St  
Montreal (Quebec) H9P 2T4  
CANADA

Telephone : 514-822-6000  
Fax : 514-822-6294

Web Site: [www.matrox.com/imaging](http://www.matrox.com/imaging)

Contact : Mr. Lorne Trottier  
President

E-Mail : [info@matrox.com/imaging](mailto:info@matrox.com/imaging)

Year of foundation : 1981

## Description of activities

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Matrox Imaging, a leading developer of component-level solutions, is recognized for providing OEMs and integrators in the manufacturing, medical diagnostic and security industries with innovative yet cost-effective solutions.

Components include cameras, interface boards and processing platforms, all designed to provide optimum price-performance within a common software environment.

Specifically designed to decrease development time and costs, Matrox Imaging technology is used in factory automation, process control, electronics and pharmaceutical packaging, semiconductor inspection, robotics, radiology, microscopy, and video surveillance. The company is offering technical consulting services, integration assistance and the highest manufacturing standards.

Matrox has offices in the United Kingdom, Ireland and Germany, and sales representatives in more than 20 countries.

# Octasic

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Address : 4101 Molson St, suite 300  
Montreal (Quebec) H1Y 3L1  
CANADA

Telephone : 514-282-8858  
Fax : 514-282-7672

Web Site: [www.octasic.com](http://www.octasic.com)

Contact : Mme Lucie G  linas  
Vice-President, Finance and Administration

E-Mail : [lucie.gelinas@octasic.com](mailto:lucie.gelinas@octasic.com)

Year of foundation : 1998

## **Description of activities**

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Octasic is a global provider of media and wireless baseband processing silicon and software solutions for the converged carrier, enterprise and end-point communication equipment markets. The company's leading quality VoIP, HD video and multi-standard wireless base station multi-core DSP solutions are based on Opus, a unique asynchronous DSP architecture.

Octasic allows next-generation equipment manufacturers to significantly reduce system costs by offering unmatched performance in terms of density and power consumption.

## PMC-Sierra

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Address : 3333 Graham Blvd. Suite 500  
Montreal (Quebec) H3R 3L5  
CANADA

Telephone : 514-734 3700  
Fax : 514-734 3701

Web Site: [www.pmc-sierra.com](http://www.pmc-sierra.com)

Contact : Mr. François Lambert  
Manager, Montreal's Division

E-Mail : [Francois\\_Lambert@pmc-sierra.com](mailto:Francois_Lambert@pmc-sierra.com)

Year of foundation : 1992 (1997 Montreal)

### **Description of activities**

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PMC-Sierra (NASDAQ:PMCS) is a fabless company that offers network integrated circuits for ATM, SONET/SDH, T1/E3 and IP (MAN and WAN networks), high performance MIPS microprocessors, including specialized components for enterprise networks (LAN and SAN).

The company, which is involved in the development of the worldwide broadband communication infrastructure, is offering high value added solutions to telecommunication equipment leaders. The company is ISO 9001 certified. PMC-Sierra headquarter is located in Vancouver (BC) and offers technical support worldwide.

# Silonex

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Address : 5200 Saint-Patrick St.  
Montreal (Quebec) H4E 4N9  
CANADA

Telephone : 514-768-8000  
Fax : 514-768-8889

Web Site: [www.silonex.com](http://www.silonex.com)

Contact : Mr. Fred Rohrbacher  
General Manager  
[info@silonex.com](mailto:info@silonex.com)

Year of foundation : 1958

## Description of activities

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Silonex is specialized in the design, manufacture and marketing of optoelectronic devices.

Main products are:

- ⇒ CdS photoconductive cells
- ⇒ Photodiodes and phototransistors
- ⇒ Opto-couplers
- ⇒ Specialized opto-electronic sensors
- ⇒ Hybrid micro-modules on ceramic or composite substrates

Silonex is ISO 9001 certified since 1994. The company has the equipment and the expertise to design and manufacture optical sensors. The air conditioned 1500 square-meters plant has a class 10,000 humidity and temperature controlled cleanroom.

# Task Micro-Electronics

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Address : 16700 Trans-Canada Highway  
Montreal (Quebec) H9H 4M7  
CANADA

Telephone : 514-697-6616  
Fax : 514-697-4466  
Web Site : [www.taskmicro.com](http://www.taskmicro.com)

Contact : Mr. Gilles Ouellette  
Marketing Manager

E-mail : [info@taskmicro.com](mailto:info@taskmicro.com)

Year of foundation : 1987

## Description of activities

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Services currently offered by Task Micro-Electronics to military, aerospace, medical, telecommunications, and some commercial markets include the design, development, and production of:

- ⇒ Sensors
- ⇒ Optoelectronic
- ⇒ Hybrid circuits
- ⇒ Chip-and-wire hybrids
- ⇒ Surface-mount and mixed technology boards, including PCMCIA (Personal Computer Memory Card International Association)
- ⇒ Chip-and-wire assemblies on most materials (FR-4, Flex, etc.)

# TELEDYNE DALSA

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Address : 18 de l'Aéroport Blvd.  
Bromont (Quebec) J2L 1S7  
CANADA

Telephone : 450-534-2321  
Fax : 450-534-3201

Web Site: [www.teledynedalsa.com](http://www.teledynedalsa.com)

Contact : Mr. Donald Robert  
Vice-President, Sales and Marketing

E-Mail : [donald.robert@teledynedalsa.com](mailto:donald.robert@teledynedalsa.com)

Year of foundation : 1973

## **Description of activities**

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Teledyne DALSA is one of the world's foremost pure-play foundries for MEMS, high voltage CMOS, and advanced CCDs. What sets the company apart is the vast and unique wafer fabrication repertoire, which is the foundation of their research, innovation, and process development expertise.

This technology portfolio enables them to design from conception to reality in high volume production for true competitive advantage. Teledyne DALSA has demonstrated ability to transfer and customize MEMS and analog/mixed signal CMOS processes offers a commitment to success.

Their ability to optimize architecture, performance, and reliability serves high-volume, mission-critical microsystems in photonics, telecom, biomedical, industrial, and consumer applications for fabless semiconductor players and integrated device manufacturers.

## **4- PASSIVE COMPONENTS**

Manufacturers of connectors, electronic cables, transformers, switches, etc.

# BROWNSBURG ELECTRONIK

---

Address : 741 Lowe St.  
Lachute (Quebec) J8H 4N9  
CANADA

Telephone : 450-562-5211  
Fax : 450-562-1296

Web Site : [www.bei.net](http://www.bei.net)

Contact : Mr. Bernard Cyr  
President

E-Mail : [bei@bei.net](mailto:bei@bei.net)

Year of foundation : 1976

## **Description of activities**

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Brownsburg Electronik designs and manufactures transformers and inductors for the electronic industry, including custom winding services.

Brownsburg is ISO 9002, CSA and UL certified.

# Connexion Technic

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Address : 989 Nordique Ave.  
Quebec (Quebec) G1C 0C7  
CANADA

Telephone : 418-660-6276  
Fax : 418-660-0079  
Web Site: [www.con-tec.com](http://www.con-tec.com)

Contact : Mr. Louis Vachon  
Manager, Sales and Services

E-Mail : [info@con-tec.com](mailto:info@con-tec.com)

Year of foundation : 1994

## **Description of activities**

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Connexion Technic is involved in the manufacturing of wiring harnesses and custom cable assembly. The company assembles cables for the medical, communication, commercial and transportation sectors.

Connexion Technic is working in partnership with their clients for the development of their products.

## CEDEQ Industries

---

Address : 5193 Montee St-Hubert  
St-Hubert (Quebec) J3Y 1V8  
CANADA

Telephone : 450-462-3988

Web Site : [www.cedeq.com](http://www.cedeq.com)

Contact : Mr. Denis Lamarre  
President

E-Mail : [support@cedeq.com](mailto:support@cedeq.com)

Year of foundation : 1982

### **Description of activities**

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Cedeq Industries has developed and markets a programmable keyboard. The "Enterpad" is plugged like a traditional keyboard and is compatible with all software. Unlike some other overlay keyboards, no special drivers or hardware interface are required when used with DOS or Windows.

Enterpad configuration is easily created and downloaded from a text file and is duplicated quickly to multiple keypads.

## Decalcomanie Artistic

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Address : 9475 Jean-Pratt St.  
Montreal (Quebec) H4N 2W7

Telephone : 514-382-0351  
Fax : 514-382-0347

Web Site: [www.artisticdecal.com](http://www.artisticdecal.com)

Contact : Mr. René-Pierre Roussel  
President

E-Mail : [info@artisticdecal.com](mailto:info@artisticdecal.com)

Year of foundation : 1937

### **Description of activities**

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Artistic is specialized in the design and manufacturing of membrane switches, labels and decals, graphic overlays (lexan), fleet and vehicle graphics and promotional communications.

# DOCOM Technologies

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Address : 80 J.A.Bombardier Suite N  
Boucherville (Quebec) J4B 8N4  
CANADA

Telephone : 450-449-1988  
Fax: 855-362-6622

Web Site : [www.docoMr.ca](http://www.docoMr.ca)

Contact : Mr. François Cloutier  
Technical Manager

E-Mail : [info@docoMr.ca](mailto:info@docoMr.ca)

Year of foundation : 1998

## **Description of activities**

---

Docom Technologies offers the following specialized services:

- ⇒ Cable and harness assembly
- ⇒ Electronic product integration

# GGI International

---

Address : 1455 32<sup>e</sup> Avenue  
Montreal (Quebec) H8T 3J1  
CANADA

Telephone : 514-631-6662  
Toll Free Telephone : 888-631-6662  
Fax : 514-631-7533

Web Site : [www.ggi-international.com](http://www.ggi-international.com)

Contact : Mr. Ian Graham  
President

E-Mail : [sales@ggi-international.com](mailto:sales@ggi-international.com)

Year of foundation : 1981

## Description of activities

---

GGI International specializes in the design and manufacturing of membrane switches and graphic overlays for the electronic industry. In late December of 2001, GGI signed an exclusive Canadian licensee agreement for Duraswitch technology, allowing GGI to manufacture market and distribute next-generation switch technologies such as High-Impact PushGate, PushGate, ThinCoder RT and MagnaMouse™.

The product line is as follow:

- ⇒ Membrane switches
- ⇒ Graphic overlays
- ⇒ Integrated LEDs
- ⇒ Raised symbols
- ⇒ UV texture
- ⇒ Switches on printed circuits
- ⇒ Screenprinted legends
- ⇒ Labels
- ⇒ Other related products

Turnaround for prototype boards is ten working days.

# Intempco

---

Address : 880 Selkirk St.  
Montreal (Quebec) H9R 3S3  
CANADA

Telephone : 514-426-0488  
Fax : 514-426-0522

Web Site: [www.intempco.ca](http://www.intempco.ca)

Contact : Mr. John Lojen  
President

E-Mail : [info@intempco.ca](mailto:info@intempco.ca)

Year of foundation : 1986

## **Description of activities**

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Intempco design and manufacture temperature, humidity and level sensors.

# Interface Graphique

---

Address : 855 Grand-Bernier Road  
Saint-Jean-sur-Richelieu (Quebec) J3B 8H8  
CANADA

Telephone : 450-542-9777  
Fax : 450-542-9427

Web Site: [www.interface-graphique.com](http://www.interface-graphique.com)

Contact : Mr. François Bienvenue  
President

E-Mail : [ventes@interface-graphique.com](mailto:ventes@interface-graphique.com)

Year of foundation : 2001

## Description of activities

---

The company specializes in the design and manufacturing of membrane switches and graphic overlays for the electronic industry, and is committed to a close relationship with its clients.

Products and services offered are as follow:

- ⇒ Membrane switches
- ⇒ Graphic overlay
- ⇒ Decalcomany
- ⇒ Serigraphy

# Memtronik Innovations

---

Address : 8648 Pie IX Blvd.  
Montreal (Quebec) H1Z 4G2  
CANADA

Telephone : 800-370-1021  
Fax : 514-374-0000

Web Site: [www.memtronik.com](http://www.memtronik.com)

Contact : Mme Manon Martel  
President

E-Mail : [info@memtronik.com](mailto:info@memtronik.com)

Year of foundation : 1994

## Description of activities

---

Memtronik Innovations manufactures membrane switches, graphic overlays and electroluminescent lamps. Through research and development, the company has designed products that meet the specific requirements of each project. The company combines know-how and creativity to meet its clients' requirements.

The company works in close relationship with their clients to reviews and advises on every production step, from design to production tooling, in order to manufacture high quality products at competitive prices.

## Reproductions BLB

---

Address : 1235 Gay-Lussac St.  
Boucherville (Quebec) J4B 7K1  
CANADA

Telephone : 450-655-2993  
Fax : 450-655-8772

Web Site: [www.reproblb.com](http://www.reproblb.com)

Contact : Mr. Hugo Leclair  
President

E-Mail : [info@reproblb.com](mailto:info@reproblb.com)

Year of foundation : 1980

### **Description of activities**

---

Reproduction BLB is specialized in industrial serigraphy: membrane switches, graphic overlays (lexan), labels and decals, fleet and vehicle graphics and promotional communications.

# RL Innovations

---

Address : 81 South Notre-Dame St,  
Louiseville (Quebec) J5V 1Y5

Telephone : 819-701-1260

Contact : Mr. Robert Lefebvre, ing.  
Sales Manager

E-Mail : [rlinnovations@sympatico.ca](mailto:rlinnovations@sympatico.ca)  
Corporate video : [www.linkedin.com/in/rlinnovations](http://www.linkedin.com/in/rlinnovations) (Complete profile)

Year of foundation : 2005

## **Description of activities**

---

RL Innovations is specialized in engraving, cutting and marking with laser machines and CNC.

Engraving: Identification, labels, BarCode, logos, ID tags on fiber, wood, MDF, glass, wood, no-die gasketing, etc. PCB prototypes.

Cutting: Prototype, plastic and mechanical parts, seals, viton, urethan, silicone, etc. Electronic EMI / RF seals.

Marking: Identification, labels, decals, serial numbers (Standard and BarCode), logos, etc. On all type of metal (Control panels, etc.). Metal laser marking (Anodized and painted).

# RF-MTL Electronics

---

Address : 7103 Transcanada Highway Suite 208  
Montreal (Quebec) H4T 1A2  
CANADA

Telephone : 514-332-9998  
Fax : 514-332-9892

Web Site : [www.rfmtl.com](http://www.rfmtl.com)

Contact : Mr. Busileanu Eugen  
President

E-Mail : [eugen@rfmtl.com](mailto:eugen@rfmtl.com)

Year of foundation : 1997

## Description of activities

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RF-MTL Electronics specializes in the fabrication of RF and microwave cable assemblies, custom wiring harnesses and control system cabinets, following "just in time" production procedures. The Head Office and manufacturing plant is located in Montreal. The manufacturing facility can produce prototypes, rush orders, and high volume production quantities. The company is ISO 9001-2008 certified.

Their products are utilized in various industries such as:

- ⇒ military
- ⇒ telecommunications
- ⇒ aerospace
- ⇒ electronics
- ⇒ transport

## SDP Telecom

---

Address : 1725 Transcanada Highway  
Montreal (Quebec) H9P 1J1  
CANADA

Telephone : 514-421-5959  
Fax : 514-421-3171

Web Site : [www.sdptelecoMr.com](http://www.sdptelecoMr.com)

Contact : Mr. Shyam Gupta  
President

E-Mail : [info@sdptelecoMr.com](mailto:info@sdptelecoMr.com)

Year of foundation : 1994

### Description of activities

---

SDP is a provider of Microwave and RF solutions for the wireless and wireline telecommunications industry and specialty markets, including the medical industry, satcom, and the military.

# SMC Scientific Microwave

---

Address : 707 Lajoie Ave  
Montreal (Quebec) H9P 1G7  
CANADA

Telephone : 514-828-9212  
Fax : 514-828-9227

Web Site : [www.smcq.com](http://www.smcq.com)

Contact : Mr. Mohamed Saad  
Vice-President

E-mail : [smc@smcq.com](mailto:smc@smcq.com)

Year of foundation : 1986

## Description of activities

---

SMC Scientific Microwave offers advanced state-of-the-art technical expertise for the design, development, and production of passive microwave and millimeter wave components and subsystems for military, space, and commercial applications.

New design techniques are applied to various evanescent-mode ridge waveguide and planar (E or H) structures, to cover narrow band, wideband, low power, and high power applications. These components can be designed with coax or waveguide (standard or ridged) interfaces

Compared to conventional design techniques, these new techniques offer the following advantages:

- ⇒ Accurate designs reduce development costs
- ⇒ Simple structures with relaxed tolerances are easier to manufacture and more cost-effectively produced
- ⇒ Superior electrical and environmental performance
- ⇒ Exceptional reliability
- ⇒ Design versatility for a wide range of applications
- ⇒ Highly reliable supporting software accurately predicts mechanical dimensions and electrical performance of designed components; no optimization is required
- ⇒ Custom made drafting software which produces engineering drawings from the calculated mechanical dimensions
- ⇒ Patent pending technology based on latest insights in microwave theory
- ⇒ A proprietary technology, offering a comprehensive range and combinations of designs for a large variety of applications.

## Terminal & Cable TC

---

Address : 1930 Bellerive Road  
Carignan (Quebec) J3L 4Z4

Telephone : 450-658-8432  
Fax : 450-658-1169

Web Site : [www.terminal.ca](http://www.terminal.ca)

Contact : Mr. Marc April  
President

E-Mail : [marc.april@terminal.ca](mailto:marc.april@terminal.ca)

Year of foundation : 1971

### **Description of activities**

---

Terminal & Cable TC commits to the manufacture (and delivery within agreed upon timelines) of wiring products and accessories that fully meet or exceed all the requirements of each and every customer.

The company is a manufacturer of cable harnesses and battery cables for the automotive and military industries. Production items include products for trucks, buses, loaders, trailers, industrial plants of any kind, electric household appliances and more.

# Transfab TMS

---

Address : 175 Jules-Leger St.  
Boucherville (Quebec) J4B 7K8  
CANADA

Telephone : 866-540-0412  
Fax : 866-499-9115

Web Site : [www.transfabtms.com](http://www.transfabtms.com)

Contact : Mr. Frank Falvo  
President

E-Mail : [salestms@transfabtms.com](mailto:salestms@transfabtms.com)

Year of foundation : 1991

## **Description of activities**

---

Transfab TMS is specialized in the design and manufacturing of transformers.

The product range includes:

- ⇒ Control Transformer
- ⇒ Lighting Transformer (Low Voltage)
- ⇒ Rectifier Transformer
- ⇒ Transformers for electronic applications (Printed circuit Board Mounting)

Transfab is also involved in the development of custom designed transformers, including prototypes.

## **5- PRINTED CIRCUIT BOARDS**

# Circuits Imprimés de la Capitale

---

Address : 104 - 925 Newton St.  
Quebec (Quebec) G1P 4M2  
CANADA

Telephone : 418-877-9047  
Fax : 418-780-1735

Web Site : [www.pcbcic.com](http://www.pcbcic.com)

Contact : Mr. François Bouchard

E-Mail : [info@pcbcic.com](mailto:info@pcbcic.com)

Year of foundation : 1986

## **Description of activities**

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CIC (Circuits Imprimés de la Capitale) offers comprehensive manufacturing solutions for your printed circuit boards, as well as quick prototyping services plus small or large-run production. CIC manufactures a variety of printed circuit boards, including 3D, Teflon, metal core, flex, rigid flex, multilayer and double-sided.

CIC offers vertical integration of complex electronic products and systems, resulting in technically advanced product development through a collaborative working approach.

The company is UL and IPC A600 certified. Turnkey services for design and manufacturing are also available.

The production equipment is state of the art is efficient and versatile.

# CMR Summit

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Address : 850 Selkirk St.  
Montreal (Quebec) H9R 3S3  
CANADA

Telephone : 514-428-1229  
Fax : 514-428-5953

Web Site : [www.cmrsummit.com](http://www.cmrsummit.com)

Contact : Mr. Louis Carrier  
Executive Vice-President

E-mail : [lcarrier@cmrsummit.com](mailto:lcarrier@cmrsummit.com)

Year of foundation : 1993

## **Description of activities**

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CMR Circuits is a high technology service provider in electronic engineering.

The available services are :

- ⇒ Symbol, geometry and library design
- ⇒ Schematic design
- ⇒ Printed circuit boards design
- ⇒ Manufacturing, assembly and component listing documentation
- ⇒ Film laser drawing
- ⇒ Manufacturing of pcb prototype
- ⇒ Electronic components assembly

The quality team combined state-of-the-art functional and in-circuit test processes and offers high quality product, cost effective supply and on-time delivery.

# GRM Circuits

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Address : 4960 Courval St.  
Montreal (Quebec) H4T 1L4  
CANADA

Telephone : 514-344-5333  
Fax : 514-344-5334

Web Site : [www.grm-circuits.com](http://www.grm-circuits.com)

Contact : Mr. Claude Vigneault  
President

E-Mail : [grm@grm-circuits.com](mailto:grm@grm-circuits.com)

Year of foundation : 1975

## Description of activities

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GRM Circuits offers its customers the following products and services:

- ⇒ Single and double sided printed circuit boards (PCB)
- ⇒ Multilayer PCB (up to 20 layers)
- ⇒ Blind and buried vias
- ⇒ Surface mount technology
- ⇒ Immersion plating
- ⇒ Connectors gold plating
- ⇒ Carbon ink

The quality assurance program is ISO 9000-2000 certified.

The following printed documentation is available on request:

- ⇒ Compliance report (always provided)
- ⇒ Cross sectional picture
- ⇒ Plated metals thickness measurement
- ⇒ Electrical test results

Services include prototyping (three to seven days), including medium to large volume productions.

# Labo Circuits

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Address : 529 Deslauriers St.  
Montreal (Quebec) H4N 1W2  
CANADA

Telephone : 514-745-4464  
Fax : 514-745-4465

Web Site : [www.golabo.com](http://www.golabo.com)

Contact : Mr. Denis Josien  
President

E-Mail : [service@labocircuits.ca](mailto:service@labocircuits.ca)

Year of foundation : 1989

## Description of activities

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Labo Circuits is a manufacturer of printed circuit boards that meet the highest standards and offers services to customers in fields such as transportation, aerospace, high-end electronic equipment, audiovisual, electricity distribution, etc.

Labo Circuits offers its customers the following products and services:

- ⇒ Double sided and multi-layers
- ⇒ MC PCB (Metal core)
- ⇒ Panel size up to 24" x 24"
- ⇒ Various types of material substrate
- ⇒ Multiple colors available
- ⇒ UL 94V-0 approved

# Orbit Technologies

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Address : 354 - 3 700, Griffith St.  
Montreal (Quebec) H4T 2B3  
CANADA

Telephone : 514-856-0451  
Fax : 514-856-0495

Web Site : [www.orbittech.com](http://www.orbittech.com)

Contact : Mr. Marc Afriat  
President

E-Mail : [sales@orbittech.com](mailto:sales@orbittech.com)

Year of foundation : 1995

## **Description of activities**

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Orbit Technologies is a manufacturers' representative to manufacturers of custom products and services for the electronic industry. The company provides its customers with global solutions that meet their needs in the electronic, electro-mechanical and mechanical markets.

From prototyping to high-volume manufacturing, Orbit Technologies is able to take a project from concept to completion entirely with their own team of principal partners and associates. The company is offering turnkey solutions and specific services.

# PULSAR CIRCUITS

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Address : 207 Labrosse St.  
Montreal (Quebec) H9R 1A3  
CANADA

Telephone : 514-630-6028  
Fax : 514-630-0140

Web Site : [www.pulsarcircuits.com](http://www.pulsarcircuits.com)

Contact : Mr. Richard Wolowicz  
President

E-Mail : [info@pulsarcircuits.com](mailto:info@pulsarcircuits.com)

Year of foundation : 1985

## **Description of activities**

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Pulsar Circuits is a manufacturer of printed circuit board that specializes in high precision, fast turnaround printed circuit boards of single, double or multilayer's, including flexible and flexirigid.

# Repro-Precision

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Address : 161 Mérizzi St.  
Montreal (Quebec) H4T 1Y3  
CANADA

Telephone : 514-731-3691  
Fax : 514-731-3778

Web Site : [www.repro.com](http://www.repro.com)

Contact : Mr. Perry March  
President

E-Mail : [films@repro.com](mailto:films@repro.com)

Year of foundation : 1984

## Description of activities

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Repro-Precision offers laser photo plotting services for the production of printed circuit boards.

The company is ISO 9002 certified.

## **6- ELECTRONIC MANUFACTURING SERVICES (EMS)**

# AT & A

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Address : 64 Brunswick St.  
Montreal (Quebec) H9B 2L3  
CANADA

Telephone : 514-421-4445  
Fax : 514-421-2355

Contact : Mr. Kenneth Joe  
President

E-Mail : [kennethjoe@atacanada.ca](mailto:kennethjoe@atacanada.ca)

Year of foundation : 1987

## **Description of activities**

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AT&A (Advanced technology and assembly) provides electronic manufacturing services (EMS).

In order to offer very high quality products, the company applied MIL-STD-105D. This standard has been approved by the Department of Defense in Washington and is used by the Army, Navy, Air Force and the Defense Supply Agency. The company is also IPC - 610 and ISO 9002 certified.

AT&A provides plated through-hole assembly services as well as surface-mount assemblies (SMT).

The company handles small, medium and large production quantities as well as prototypes. If required, complete printed circuit board assemblies may be packed in individual anti-static bags as well as in partitioned cartons to ensure damage free delivery.

# ANVAR Électronique

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Address : 142 Barr St.  
Montreal (Quebec) H4T 1Y4  
CANADA

Telephone : 514-731-3941  
Fax : 514-731-2216

Web Site : [www.anvar.ca](http://www.anvar.ca)

Contact : Mr. Ross Anvar  
President

E-Mail : [Ross@anvar.ca](mailto:Ross@anvar.ca)

Year of foundation : 2001

## **Description of activities**

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The primary mission of ANVAR Electronics is to provide their customers with quality products at competitive prices and to service them in the shortest possible time.

The company provides the support that customers need when designing their products or when choosing materials. Their team of engineers and technicians produces drawings and make prototype samples to aid customers in developing their products and accelerate the manufacturing cycle, ensuring quick response and delivery.

# AMPERE

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Address : 222 West Road 230  
La Pocatiere (Quebec) G0R 1Z0  
CANADA

Telephone : 418-371-0713  
Fax : 418-371-0714

Web Site : [www.ampere-proto.com](http://www.ampere-proto.com)

Contact : Mr. Guy Gilbert  
President

E-Mail : [ggilbert@ampere-proto.com](mailto:ggilbert@ampere-proto.com)

Year of foundation : 2008

## **Description of activities**

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AMPERE is specialized in prototype electronic assembly such as electronic boards, modules, cables... The company is also involved in small and medium size turnkey circuit assemblies.

Their specialized equipments are:

- ⇒ Mydata (BGA, QFN, 0201...) Pick & Place
- ⇒ Prototype automatic component transfer equipment (Handle cute tape up to 5 components 0603 min.) accuracy of 0201 and BGA
- ⇒ X-Rays inspection system

# Caladena Group

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Address : 1918 St-Régis St.  
Montreal (Quebec) H9P 1H6  
CANADA

Telephone : 514-472-9743  
Fax : 514-472-9742

Web Site: [www.caladena.com](http://www.caladena.com)

Contact : Mr. Marc Préfontaine

E-Mail : [mprefontaine@caladena.com](mailto:mprefontaine@caladena.com)

Year of foundation : 1989

## **Description of activities**

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The Caladena Group is a full EMS provider that includes electronic manufacturing & repair services including PCB/PWB assembly (both SMT & through-hole), cable assembly & electro-mechanical assembly. SMT capabilities include placing packages as small as 0402; BGA, SOIC, PLCC, QFP packages & ultra fine pitch as small as 0.015 in.

Equipment includes high-speed component placers, automatic & semi- automatic printers, convection reflow oven, Electrovert Wave Solder machines; X-ray inspection unit & AOI unit. Through-hole assembly capabilities include axial insertion, radial insertion, dip, wire leads, connectors & hand assembly. Both leaded & ROHS-compliant assembly available.

Workmanship meets applicable IPC standard. Markets served include industrial, commercial, medical, telecom, governmental & educational. Both consignment & turnkey orders very welcome.

# Cancino Technologies Corporation

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Address : 535 Lepine St.  
Montreal (Quebec) H9P 2S9  
CANADA

Telephone : 514-631-7667  
Fax : 514-631-6786

Web Site : [www.cancinotechnologies.com](http://www.cancinotechnologies.com)

Contact : Mr. Ron Legault

E-Mail : [info@cancinotechnologies.com](mailto:info@cancinotechnologies.com)

Year of foundation : 1988

## **Description of activities**

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Cancino Technologies Corporation offers electronic manufacturing services (EMS). Production capability includes a broad range of services including surface-mount (SMT) and through-hole assembly, ball grid arrays (BGA), final assembly and test services. The company is specialized in prototypes to large volume assembly.

# Castonguay Electronic

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Address : 2180 de la Province St.  
Longueuil (Quebec) J4G 1R7  
CANADA

Telephone : 450-463-0685  
Fax : 450-463-2652

Web Site : [www.castonguay-electronique.com](http://www.castonguay-electronique.com)

Contact : Mr. Alain Castonguay  
President

E-Mail : [info@castonguay-electronique.com](mailto:info@castonguay-electronique.com)

Year of foundation : 1995

## Description of activities

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Castonguay Electronic is specialized in electronic product manufacturing and offers turnkey services – from component supply to after sale serviceability. Services cover printed circuit board assembly for through-hole and surface mount technologies. They also offer final product packaging, including test, calibration and shipping.

Flexible market driven services are provided to address quick turnaround requirement or schedule delay for total customer satisfaction.

The company also provides research and development assistance.

## CLD Cite Logique

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Address : 2075 Sigouin St.  
Drummondville (Quebec) J2C 6P8  
CANADA

Telephone : 819-477-3266  
Fax : 819-477-2099

Contact : Mr. Jean-Charles Lagacé  
President

E-Mail : [jclagace@cld.qc.ca](mailto:jclagace@cld.qc.ca)

Year of foundation : 1992

### **Description of activities**

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The company offers through-hole and surface mount electronic manufacturing services, including development service for microcontrollers. The company handles all phases from prototype to production in order to offer turnkey services.

# Delastek

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Address : 2699 5<sup>e</sup> Ave  
Grand-Mère (Quebec) G9T 5K7

Telephone : 819-533-5788  
Fax : 819-533-3494

Web Site: [www.delastek.com](http://www.delastek.com)

Contact : Mr. Claude Lessard  
President

E-Mail : [info@delastek.com](mailto:info@delastek.com)

Year of foundation : 1984

## **Description of activities**

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Delastek is specialized in the development of electrical, mechanical, computer, and electronic products using computer aided design (CAD) equipment. The company accommodates various production volumes. The assembly is done using through-hole and surface-mount technologies.

Delastek provides a flexible service that can handle components procurement, different production steps and technical support.

# DEPRO Electronic

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Address : 101 - 755 Cure-Boivin St.  
Boisbriand (Quebec) J7G 2J2  
CANADA

Telephone : 450-430-6251  
Fax : 450-430-6203  
Web Site: [www.depro.ca](http://www.depro.ca)

Contact : Mr. Denis Dupaul  
President

E-Mail : [info@depro.ca](mailto:info@depro.ca)

Year of foundation : 1988

## **Description of activities**

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DEPRO Electronic offers electronic design and manufacturing services that are used mainly for industrial automation system applications.

# DIGICO

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Address : 950 Bergar St.  
Laval (Quebec) H7L 5A1  
CANADA

Telephone : 514-967-7100  
Fax : 514-967-7444

Web Site : [www.digico.cc](http://www.digico.cc)

Contact : MR. Jacques-Etienne Côté  
President

E-Mail : [jecote@digico.cc](mailto:jecote@digico.cc)

Year of foundation : 1978

## **Description of activities**

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Digico is a private owned company, which offers services in manufacturing of complex electronic material. Specialized in the assembly of electronic circuits, cables and harness, as well as electronic integration, testing and verification, Digico focuses on an innovative approach that precisely responds to continuous development needs of its partners.

Moreover, Digico is the first Canadian electronic product manufacturer to hold ISO 13485 certification for medical industry. Their added value in every step provides the opportunity to establish a relationship of trust with their customers and to provide relevant and timely solutions to current business challenges.

# ENUVO

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Address : 200 – 2845 Carthagene St.  
Quebec (Quebec) G2B 5M6  
CANADA

Telephone : 418-907-9581  
Fax : 418-907-9582

Web Site: [www.enuvo.net](http://www.enuvo.net)

Contact : Mr. Martin Huard  
Application Specialist

E-Mail : [informations@enuvo.net](mailto:informations@enuvo.net)

## **Description of activities**

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Enuvo is a high tech company specialized in quick turnaround design to production services.

# ETRONIC

---

Address : 3142 Joseph-Dubreuil St.  
Lachine (Quebec) H3L 2V6  
CANADA

Telephone : 514-631-4341

Web Site: [www.e-tronics.ca](http://www.e-tronics.ca)

Contact : Mr. Hosseim Samini  
President

E-Mail : [h.samini@e-tronics.ca](mailto:h.samini@e-tronics.ca)

Year of foundation : 2009

## **Description of activities**

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Etronic offers on a sub-contracting basis electronic manufacturing services.

# GENTEC

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Address : 2625 Dalton St.  
Quebec (Quebec) G1P 3S9  
CANADA

Telephone : 418-651-8000  
Fax : 418-651-6695

Web Site: [www.gentec.ca](http://www.gentec.ca)

Contact : Mr. François Giroux  
President

E-Mail : [info@gentec.ca](mailto:info@gentec.ca)

Year of foundation : 1959

## **Description of activities**

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Gentec is a privately held Canadian company with \$12 million in revenues. The headquarters and production facilities are located in Sainte-Foy. The plant includes an automated assembly line for surface-mount (SMT) components, which can accommodate small and medium volume production. Gentec is committed to developing long-term strategic relationships with customers who involve ongoing process and relationship improvement.

Gentec is ISO 9001 certified since 2001 and can perform many environmental tests: heat, high voltage, interference, etc.

Gentec is also involved electronic circuit development and complex electronic product integration.

Finally, Gentec offers full turnkey shipping to the end customer.

# IGG Electronic

---

Address : 827 Mc Caffrey St.  
Montreal (Quebec) H4T 1N3  
CANADA

Telephone : 514-344-6674  
Fax : 514-344-6684

Web Site : [www.igg.ca](http://www.igg.ca)

Contact : Mr. Mike de Masi  
President

E-Mail : [info@igg.ca](mailto:info@igg.ca)

Year of foundation : 1985

## Description of activities

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IGG Electronic offers a variety of electronic services. The production capability includes specialized equipments in order to provide the following services:

- ⇒ Packaging
- ⇒ Research and development
- ⇒ Cable assemblies (fiber optic, conventional cable and coaxial)
- ⇒ Electronic manufacturing services (EMS), including surface-mount (SMT)
- ⇒ Interconnect product

# INNOVOX

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Address : 9750 Waverly St.  
Montreal (Quebec) H3L 2V6  
CANADA

Telephone : 514-384-4269  
Fax : 514-384-4319

Web Site: [www.innovox.com](http://www.innovox.com)

Contact : Mr. René Séguin  
Vice-president

E-Mail : [seguin@innovox.com](mailto:seguin@innovox.com)

Year of foundation : 1988

## **Description of activities**

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Innovox designs and produces state of the art electronic products for the benefit of their clients.

Company's expertise in electronics, in applied programming and in mechanics allows the company to build complete products.

# JLS Electronic Technologies

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Address : 521 Lepine St.  
Montreal (Quebec) H9P 2S9  
CANADA

Telephone : 514-631-7956  
Fax : 514-631-7135

Web Site: [www.jlsservices.com](http://www.jlsservices.com)

Contact : Mr. Breen Kennedy  
President

E-Mail : [Breen@jlsservices.com](mailto:Breen@jlsservices.com)

Year of foundation : 1993

## Description of activities

---

JLS offers the following services:

- ⇒ Printed circuit boards design
  - All CAD and CAE software support
  - Surface-mount technology and sub-assemblies
  - Photo plotting
- ⇒ Prototype boards
  - Single and double sided (24-hour service)
  - Multilayer (72 hour service)
  - Bare board testing
- ⇒ Printed circuit boards manufacturing
  - Single and double sided (2-3 weeks delivery)
  - Multilayer (2-4weeks delivery)
  - Bare board testing
- ⇒ Electronic manufacturing services (EMS)
  - Through-hole and surface mount technologies
  - Single and double sided
  - Component procurement

## M2S Electronic

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Address : 2855 De Celles St.  
Quebec (Quebec) G2C 1K7  
CANADA

Telephone : 418-842-1717  
Fax : 418-842-0123

Web Site: [www.m2s.ca](http://www.m2s.ca)

Contact : Mr. Daniel Cormier  
Manager, Sales and Marketing

E-Mail : [dcormier@m2s.ca](mailto:dcormier@m2s.ca)

Year of foundation : 1981

### Description of activities

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M2S Electronic offers value added electronic manufacturing services that are R&D and engineering solutions, board assembly and integrated products.

The company is ISO 9001 certified and RoHS compliant for the assembly line.

## M.E.A.Tec

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Address : 1195 Montee de Liesse St.  
Montreal (Quebec) H4S 1J7  
CANADA

Telephone : 514-340-0033  
Fax : 514-344-0050

Web Site : [www.meatecinc.com](http://www.meatecinc.com)

Contact : Mr. Ragini Ghandi  
Manager

E-Mail : [ragini@meatecinc.com](mailto:ragini@meatecinc.com)

Year of foundation : 1995

### Description of activities

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M.E.A. Tec is an electronic contract manufacturer equipped and re-tooled to respond to a market that can be defined as being one of high mix, high precision assemblies. The technology shift to ROHS compliant products presents an additional criterion in the selection of a contract assembly partner.

To address these shifts, the company has to be proactive in order to be lead-free ready, highly flexible, with rapid changeovers to meet today's low-to-medium-volume assembly demands.

M.E.A. Tec employs a highly trained technical support team to provide quality assurance and knowledgeable technical expertise. The company provides a close relationship with skilled people who know your projects, your needs, your schedules, and your standards.

# Optimont

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Address : 9 995-H Catania St.  
Brossard (Quebec) J4W 2V6  
CANADA

Telephone : 450-465-1818  
Fax : 450-923-0144

Web Site : [www.optimont.com](http://www.optimont.com)

Contact : Mr. Christian Morin  
Manager, Technical services

E-Mail : [cmorin@optimont.com](mailto:cmorin@optimont.com)

Year of foundation : 1992

## **Description of activities**

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Optimont offers quality services to manufacture electronic products: design review, procurement, printed circuit board assembly (through-hole, surface mount, tin-lead or RoHS lead free solder), executable software code loading, functional test, burn-in, system integration, customer packaging. You select what suits you.

# PROMARK Electronic

---

Address : 215 Voyageur St.  
Montreal (Quebec) H9R 6B2  
CANADA

Telephone : 514-426-4104

Fax : 514-426-4105

Web Site : [www.pmk.com](http://www.pmk.com)

Contact : MR. Syd Knecht  
President

E-Mail : [sydk@pmk.com](mailto:sydk@pmk.com)

Year of foundation : 1987

## **Description of activities**

---

Promark is producing high quality cable assemblies and currently provides unlimited configurations using a broad range of RF connectors and coaxial cables. All connectors and cable offered in our assemblies are supplied from QPL's manufacturers and where possible to MIL specifications.

Promark's manufacturing facility can handle prototypes, rush orders or high volume production quantities. The existing Quality Control System guarantees that the finished products will meet or exceed the customer's requirements.

# QMA Electronics

---

Address : 3514 1<sup>re</sup> St.  
Saint-Hubert (Quebec) J3Y 8Y5  
CANADA

Telephone : 450-445-6556  
Fax : 450-445-3052

Web Site: [www.qma-electronics.ca](http://www.qma-electronics.ca)

Contact: MR. André Spilmann  
President and General Manager

E-Mail : [aspil@qma-electronics.ca](mailto:aspil@qma-electronics.ca)

Year of foundation : 1995

## **Description of activities**

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QMA is a provider of electronic circuit assembly, repair, design and engineering support services. The company possesses the expertise and equipment to provide quality products, shipped in time.

QMA also offers electronic circuit and PCB design services, as well as engineering support for DFM (Design For Manufacturability) and DFT (Design For Test), thus allowing you to reduce your development and production costs.

# SMT-ASSY Electronic

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Address : 125 Hymus Blvd.  
Montreal (Quebec) H9R 1E6  
CANADA

Telephone : 514-428-8898  
Fax : 514-428-8894

Web Site: [www.smt-assy.com](http://www.smt-assy.com)

Contact : MR. Mario Lapointe  
President

E-Mail : [info@smt-assy.com](mailto:info@smt-assy.com)

Year of foundation : 1997

## **Description of activities**

---

SMT-ASSY provides the following turnkey services from design to electronic contract manufacturing services:

- ⇒ Design Engineering / Research & Development
- ⇒ SMT Prototyping
- ⇒ Pre-production to full mature production
- ⇒ Lead Free Manufacturing
- ⇒ Conformal coatings
- ⇒ Mechanical or electro mechanic assemblies

The company also provides an experienced team for developing a cost effective product, from an idea to a product.

# SMT High Technologies

---

Address : 1400 Bergar St.  
Laval (Quebec) H7L 5A2  
CANADA

Telephone : 450-962-8463  
Fax : 450-625-1933

Web Site: [www.smttechnology.com](http://www.smttechnology.com)

Contact : Mr. Stéphane Deschênes  
President

E-Mail : [info@smttechnology.com](mailto:info@smttechnology.com)

Year of foundation : 2001

## **Description of activities**

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SMT offers assembly services of complex circuits requiring high standards of quality and short manufacturing lead times. The specialized equipment, coupled with an experienced and dynamic workforce, provides their customers with a wide range of services from prototype to high production volume. The company also offers several types of services from design, cost reduction analysis etc.

# Synapse Electronic

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Address : 1010 7<sup>e</sup> Ave  
Grand Mere (Quebec) G9T 2B8  
CANADA

Telephone : 819-533-3553  
Fax : 819-533-3577

Site internet: [www.synapseelectronique.com](http://www.synapseelectronique.com)

Contact : MR. Luc G  linas  
President

E-Mail : [info@synapseelectronique.com](mailto:info@synapseelectronique.com)

Year of foundation : 2002

## Description of activities

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Synapse is committed to the design, manufacture and assembly of electronic products and services related to energy efficiency and conservation, home comfort, health and well being. The focus is on energy efficient products that promote a healthy, safe and comfortable environment.

# Techniserv AG

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Address : 3420 1<sup>e</sup> St.  
Saint-Hubert (Quebec) J3Y 8Y5  
CANADA

Telephone : 450-443-3658  
Fax : 450-443-3142

Web Site: [www.techniserv.ca](http://www.techniserv.ca)

Contact : Mr. André Garneau  
President

E-Mail : [info@techniserv.ca](mailto:info@techniserv.ca)

Year of foundation : 1972

## Description of activities

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Techniserv AG is involved in the design and manufacture of electronic control and testing equipment for printed circuit board's assembly.

# Trilogix

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Address : 2109 St-Régis St.  
Montreal (Quebec) H9B 2M9  
CANADA

Telephone : 514-684-9250  
Fax : 514-684-5857

Web Site : [www.trilogix.ca](http://www.trilogix.ca)

Contact : MR. Frank Panarello  
President

E-Mail : [admin@trilogix.ca](mailto:admin@trilogix.ca)

Year of foundation : 1989

## **Description of activities**

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Trilogix offers printed circuit boards and peripheral products assembly services for small, medium and large companies. Company's expertise in printed circuit boards assembly allows them to work in close partnership with their customers for the design and assembly of their product from prototype to production for the following sector of activities:

- ⇒ Automotive
- ⇒ Telecommunications
- ⇒ Industrial controls
- ⇒ Computers and PC based peripherals
- ⇒ Industrial/commercial security
- ⇒ Corrosion and flow measurement, etc.

# Varitron Technologies

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Address : 4811 de la Savane Road  
Saint-Hubert (Quebec) J3Y 9G1  
CANADA

Telephone : 450-926-1778  
Fax : 450-926-1844  
Web Site : [www.vti.qc.ca](http://www.vti.qc.ca)

Contact : Mr. Michel Farley  
President

E-Mail : [vti@vti.qc.ca](mailto:vti@vti.qc.ca)

Year of foundation : 1992

## **Description of activities**

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Varitron Technologies offers a full range of electronic manufacturing services for the energy, telecommunications, aerospace, medical, military and automotive sectors. The expertise in manufacturing and leading - edge equipment allow the company to offer a comprehensive service, combined with world-class quality standards. Their factories are equipped with assembly lines using the latest technology, high-performance quality-control equipment and a full range of automated machines.

The manufacturing line is compatible from prototyping to production of small, medium and large runs of surface mount and through-hole technologies.

## **7- PRODUCTION AND TEST EQUIPMENT**

Microelectronic production and test equipment, including chemicals required within the production process.

# AVERNA

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Address : 87 Prince St. Suite 140  
Montreal (Quebec) H3C 2M7  
CANADA

Telephone : 514-842-7577  
Fax : 514-842-7373

Web Site: [www.averna.com](http://www.averna.com)

Contact : Mr. Pascal Pilon  
President

E-Mail : [contact@braggphotonics.com](mailto:contact@braggphotonics.com)

Year of foundation : 1999

## **Description of activities**

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Averna is a test and quality solution provider for communications and electronic device makers worldwide. The company use off-the-shelf software, state-of-the-art hardware, customized solutions, and expertise to help leading world manufacturers get their high-tech products to market faster. Averna works directly with OEMs or as an interface between OEMs and contract manufacturers.

Averna is involved throughout the product lifecycle, from initial R&D, to mass production and maintenance, with the technology, intelligence and creative thinking that makes their customers more productive and competitive. The company can deliver ready-made solutions that have been tried and tested by major OEMs in a variety of industries, for high-tech electronics, telecommunications, RF communications and more. Or can deploy a team of experts anywhere in the world to help deploy a unique test engineering challenges.

# Bystat International

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Address : 2630 Sabourin St.  
Montreal (Quebec) H4S 1M2  
CANADA

Telephone : 514-333-8880  
Fax : 514-333-8885

Web Site: [www.bystat.com](http://www.bystat.com)

Contact : Mr. Réjean Dion

E-Mail : [Static@bystat.com](mailto:Static@bystat.com)

Year of foundation : 1982

## Description of activities

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Bystat is a manufacturer and distributor of electrostatic control products.

### Major products

The product line is divided in nine families:

- ⇒ Personal protection: wrist straps, foot grounders, lab coats
- ⇒ Packaging: shielding bags, conductive foam, packaging box
- ⇒ Workstation: dissipative PVC and rubber table mats, anti-tiring grounding systems
- ⇒ Floor: conductive and dissipative tiles and membranes (cleanroom, elevated floor, production floor)
- ⇒ Ionization: blowers, ionic bars and pistols, ionic room, conductive brush
- ⇒ Measurement instruments : wrist straps tester, audit kit, field meter
- ⇒ Chemicals: floor finishes, cleaners, conductive and dissipative paints
- ⇒ Ergonomics: ESD workbench, cabinet, dissipative laminate surface
- ⇒ Office products: dissipative PVC and rubber mats, sheet protector, and label.

### Major markets

The antistatic electronic division is represented by a distributor and OEM network in Canada, the United States and Asia.

The office product division is also covering non-electronic markets.

# Cogiscan

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Address : 50 De Gaspé St. Suite A5  
Bromont (Quebec) J2L 2N8  
CANADA

Telephone : 450-534-2644 ext. 224  
Fax : 450-534-0092

Web Site : [www.cogiscan.com](http://www.cogiscan.com)

Contact : Mr. Vincent Dubois  
President

E-Mail : [vdubois@cogiscan.com](mailto:vdubois@cogiscan.com)

Year of foundation : 1999

## **Description of activities**

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Cogiscan provides a selection of data collection and control hardware designed to optimize factory-wide track, trace and control (TTC). Using patented RFID, or barcode technology, Cogiscan TTC hardware integrates with the Cogiscan software platform or third-party software ensure the quality of the entire manufacturing process, including components, subassemblies, final assemblies, tooling and consumables, on and off the assembly line.

The Cogiscan platform seamlessly integrates with existing manufacturing systems (such as MES, MRP or ERP), and is perfectly adapted to fill any functionality gaps.

The company's real time tracking and process control solution track products and material in real-time, anywhere in the factory (PCB, components, solder, chemicals, feeders, etc.).

# CONSAB International

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Address : 50 de Gaspé St. Suite B-2  
Bromont (Quebec) J2L 2N8  
CANADA

Telephone : 450-534-2282  
Toll free telephone : 888-534-2282  
Fax : 450-534-2280

Web Site: [www.consab.com](http://www.consab.com)

Contact : Mr. Jean-Luc Breton  
President

E-Mail : [info@consab.com](mailto:info@consab.com)

Year of foundation : 1994

## Description of activities

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CONSAB International is Quebec and Canada's first company to specialize in the design, the construction and the fitting out of cleanrooms. CONSAB is also the first to offer the materials and the equipment required to modify, to correct, or to improve cleanrooms.

Here are a few among many proposed services, products and equipments:

- ⇒ The management of turnkey solutions for the construction and the handling of cleanrooms
- ⇒ The analysis and diagnosis of existing cleanrooms and their related systems
- ⇒ The alteration, the improvement or the renovation of existing cleanrooms
- ⇒ The certification of cleanrooms.- Budgeting estimates of possible projects
- ⇒ Made-to-measure training suited to our client's specific needs
- ⇒ Manufacturing and distribution of materials and equipment required for cleanrooms (for a specific project, repair or replacement)
- ⇒ The design and installation of customized system suited to specific client needs and adapted to each location's features.

# Design Workshop Technologies

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Address : 4030 Côte Vertu Suite 111  
Montreal (Quebec) H4R 1V4  
CANADA

Telephone : 514-745-0770  
Fax : 514-745-6556

Web Site : [www.ofignw.com](http://www.ofignw.com)

Contact : Mr. Michel Lacroix  
President

E-Mail : [information@ofignw.com](mailto:information@ofignw.com)

Year of foundation : 1988

## **Description of activities**

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Design Workshop develops computer aided design software for many industrial micro fabrication applications: microelectronic, photonic, sensor and electronic components. This software can be used for the design of integrated circuits, integrated RF components and microwave, planar waveguide circuits, MEMS, hard disks heads and image detectors.

Physical layout products from Design Workshop are particularly well adapted to microsystems physical layout design, design rule checking, including photomasks validation for lithographic process.

Design Workshop software is compatible to many computer platforms from PC to high-end workstations.

# DFT Microsystems

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Address : 195 Labrosse St.  
Montreal (Quebec) H9R 1A3  
CANADA

Telephone : 514-878-8271  
Fax : 514-878-9338

Web Site : [www.dftmicrosystems.ca](http://www.dftmicrosystems.ca)

Contact : Mr. Paul Sakamoto  
President

E-Mail : [paul.sakamoto@microsystems.ca](mailto:paul.sakamoto@microsystems.ca)

Year of foundation : 2004

## **Description of activities**

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DFT Microsystems offers economical high-speed digital test technology. The low cost of acquisition for our tools, their extensive parallelism, and their extreme ease-of-use all result in unparalleled expenditure savings and productivity enhancements. Their tools find use in areas of chip characterization/validation, high-speed board and chassis characterization/validation, and system-level test.

## **Divel**

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Address : 450 Deveault Ave  
Louiseville (Quebec) J5V 3B2  
CANADA

Telephone : 819-601-0101  
Fax : 819-228-0202

Web Site: [www.divel.ca](http://www.divel.ca)

Contact : Mr. Louis Lupien  
President

E-Mail : [info@divel.ca](mailto:info@divel.ca)

Year of foundation : 2002

### **Description of activities**

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Divel is involved in the design and manufacture of simple and complex assembly lines. The company can handle whole projects: conveyors of all sorts, lift tables, automatic controls, testing sets, robots, assembly jigs, validation with cameras, part trolleys and containers, lifting devices, packaging systems, etc.

## **FOCUS Microwaves**

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Address : 1603 St-Régis St.  
Montreal (Quebec) H9B 3H7  
CANADA

Telephone : 514-684-4554  
Fax : 514-684-8581

Web Site: [www.focus-microwaves.com](http://www.focus-microwaves.com)

Contact : Mr. Christos Tsironis  
President

E-Mail : [christos@focus-microwaves.com](mailto:christos@focus-microwaves.com)

### **Description of activities**

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Focus Microwaves manufactures all required components for an efficient integration and operation of a noise measurement system, from low frequency (30 MHz) to high frequency (110GHz). The company also provide testing solutions for microelectronic wafers and already packaged microcircuits.

# MAYA HTT

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Address : 4999 Sainte-Catherine West, Suite 400  
Montreal (Quebec) H3Z 1T3  
CANADA

Telephone : 514-369-5706  
Fax : 514-369-4200

Web Site : [www.mayahtt.com](http://www.mayahtt.com)

Contact : Mr. Rémi Duquette  
Marketing Manager

E-Mail : [info@mayahtt.com](mailto:info@mayahtt.com)

Year of foundation : 1982

## **Description of activities**

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MAYA HTT (MAYA Heat Transfer Technologies Ltd.) is a leading supplier of advanced thermal and fluid flow analysis software, structural analysis software, mechanical vibration test data acquisition software and related training and consulting services in mechanical engineering.

MAYA HTT's software and services help to optimize product design early in the product development process, enabling product quality while reducing product development time and cost.

# Nanometrix

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Address : J-A-Bombardier Pavillon  
5155 Decelle Ave Suite 1222  
Montreal (Quebec) H3T 2B1  
CANADA

Telephone : 514-340-5273

Web Site : [www.nanometrix.com](http://www.nanometrix.com)

Contact : Mr. Juan Schneider  
President

E-Mail : [info@nanometrixinc.com](mailto:info@nanometrixinc.com)

Year of foundation : 2002

## Description of activities

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Nanometrix has developed a new thin film nano deposition process that improve the performance of existing products, tools and process. The solar market is the fist one addressed by the company.

# Novacam Technologies

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Address : 277 Lakeshore Suite 04  
Montreal (Quebec) H9S 4L2  
CANADA

Telephone : 514-694-4002  
Fax : 514-630-6420

Web Site : [www.novacam.com](http://www.novacam.com)

Contact : Mr. Vuk Bartulovik  
President

E-Mail : [info@novacam.com](mailto:info@novacam.com)

Year of foundation : 2002

## Description of activities

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Novacam Technologies designs and manufactures high precision fiber based profilometers for metrology applications, process control, surface inspection, film thickness measurement, and profilometer for hostile and restrictive environments.

## Osemi Canada

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Address : 1869 Vermont St.  
Sherbrooke (Quebec) J1L 1G9  
CANADA

Telephone : 514-835-3232

Web Site : [www.osemicanada.com](http://www.osemicanada.com)

Contact : Mr. Christian Dubuc  
Manager

E-Mail : [info@osemicanada.com](mailto:info@osemicanada.com)

Year of foundation : 2007

### **Description of activities**

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OSEMI Canada delivers advanced semiconductor solutions to the world's leading technology companies and R&D organizations. The company markets a growth chambers for CBE epitaxy. Applications include: photo-voltaics, LEDs and opto-electronics, wireless communications, power transistors, wide bandgap semiconductors on silicon, compound semiconductor MOSFETs and advanced epitaxy.

# PARABOX

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Address : 34 de l'Aéroport Blvd.  
Bromont (Quebec) J2L 1S6  
CANADA

Telephone : 514-534-5343

Web Site : [www.parabox.ca](http://www.parabox.ca)

Contact : Mr. Éric Goyer

E-Mail : [info@parabox.ca](mailto:info@parabox.ca)

Year of foundation : 2009

## **Description of activities**

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Parabox is a manufacturer of cleanroom panels.

# ReMaTek

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Address : 8975 West Henri-Bourrassa Blvd.  
Montreal (Quebec) H4S 1P7  
CANADA

Telephone : 514-333-0101  
Fax : 514-333-9980

Web Site: [www.rematek.com](http://www.rematek.com)

Contact : Mr. René Mélançon  
President

E-Mail : [sales@rematek.com](mailto:sales@rematek.com)

Year of foundation : 1994

## **Description of activities**

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ReMaTek has developed design software geared specifically for fixturing. The result is called DrillCAD. This highly specialized software is perfectly adapted to fixture design and allows generation of manufacturing document in hours rather than in days.

# Space Codesign Systems

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Address : 450 St-Pierre St.  
Montreal (Quebec) H2Y 2M9  
CANADA

Telephone : 514-985-5255

Web Site : [www.spacecoofign.com](http://www.spacecoofign.com)

Contact : Mr.Guy Bois  
President

E-Mail : [contact@spacecoofign.com](mailto:contact@spacecoofign.com)

Year of foundation : 2008

## **Description of activities**

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Space Codesign Systems offers products and services for the creation of embedded systems applications centered on ESL (electronic system level) design technology and hardware-software codesign methodology. We offer customers complete solutions across the design cycle, and develop partnership relations with them. The company is a “spin-out” from R&D efforts originating in the Realtime and Embedded Systems Group at Ecole Polytechnique de Montreal.

# Specnor Tecnic

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Address : 5350 J. Armand-Bombardier St.  
Saint-Hubert (Quebec) J3Z 1J1  
CANADA

Telephone : 450-462-8651  
Fax : 450-462-8654

Web Site: [www.specnor.com](http://www.specnor.com)

Contact : Mr. François Parent  
President

E-Mail : [specnor@globetrotter.net](mailto:specnor@globetrotter.net)

Year of foundation : 1995

## Description of activities

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Specnor Tecnic is specialized in the development, manufacturing and marketing of soldering wave machines for the assembly of electronic components on printed circuit boards.

# SJPC

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Address : 725 Trotter St.  
St-Jean-sur-Richelieu (Quebec) J3B 8J8  
CANADA

Telephone : 450-348-0901  
Fax : 450-349-1528

Web Site: [www.sjpc.com](http://www.sjpc.com)

Contact : Mme Sylvie Berthiaume  
Manager, Sales & Marketing

E-Mail : [info@sjpc.com](mailto:info@sjpc.com)

Year of foundation : 1989

## **Description of activities**

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SJPC has established itself as a renowned player in the custom manufacturing of specialty chemicals for the microelectronics, printed electronics, organic solar cell and the imaging industries.

# TEKNA Plasma Systems

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Address : 2935 Industriel Blvd.  
Sherbrooke (Quebec) J1L 2T9  
CANADA

Telephone : 819-820-2204  
Fax : 819-820-1502

Web Site : [www.tekna.com](http://www.tekna.com)

Contact : Mr. Maher Boulos  
President & General Manager

E-Mail : [maher.boulos@tekna.com](mailto:maher.boulos@tekna.com)

## **Description of activities**

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Tekna specializes in the development, design and construction of integrated plasma systems for nanoparticle synthesis, coating applications, and powder plasma treatments such as spheroidization and purification for laboratory research and industrial-scale processes.

## TOPCON 3D Inspection (ACERIS 3D)

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Address : 19 501 Clark Graham St.  
Montreal (Quebec) H9X 2Y3  
CANADA

Telephone : 514-695-0112  
Fax : 514-665-6093

Web Site: [www.topcon3d.ca](http://www.topcon3d.ca)

Contact : Mr. Alexander Filenkov  
Vice-president, Technologies

E-Mail : [info@topcon3d.ca](mailto:info@topcon3d.ca)

Year of foundation : 2 000

### **Description of activities**

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TOPCON 3D Inspection designs and manufactures 3D/2D automated inspection equipment for the semiconductor industry. (Wafer, substrate, components inspection (IC packages/advanced packaging), photovoltaic.)