

# Ontario Semiconductor and Hardtech Company Directory



# Ontario is a global leader in semiconductors and integrated photonics

With 90% of Canada's industrial telecommunications R&D taking place in Ontario it should not be a surprise that the region houses the largest cluster of semiconductor and photonics talent in the country (Doyletech 2025). The province's rich history in semiconductor and photonics has provided it with an integrated III-V supply chain, from chip design through to foundry, to prototyping, package design and testing.

In the compound semiconductor domain, Ontario—particularly Ottawa—is one of the most complete ecosystems in North America from a supply chain perspective. This legacy is built around the design, fabrication, and packaging of compound semiconductors. The capabilities include the engineering expertise to design both the compound semiconductors and the associated products that use these devices, as well as the expertise to process the semiconductors and the complex packaging of these devices. This expertise is utilized in many vertical markets, including: aerospace and defence, automotive, renewable energy, health care, telecommunications and datacom and data centres.

Kanata North Business Association (KNBA), in collaboration with Invest Ottawa and Area X.O, is proud to serve as an OVIN Regional Technology Development Site (RTDS). The recently announced investment from the Ontario Government through the Ontario Vehicle Innovation Network (OVIN) reinforces a coordinated provincial approach to advancing automotive and mobility innovation. The Ottawa RTDS, evolving from a smart mobility test track into a collaborative semiconductor-focused initiative connects Ottawa's semiconductor cluster with real-world testing, certification, and pilot deployment environments, supporting Ontario SMEs across the innovation lifecycle—from chip design to roadway. This integrated approach accelerates adoption, attracts investment, and strengthens Ontario's leadership in semiconductor-enabled smart mobility.



# Ontario Semiconductor and Hardtech Companies by Category

The companies included in this directory have been selected based on their position within the semiconductor and hardtech value chain, with a deliberate focus on deep technology companies operating below the system design and integration layer.



## Components, ICs & MEMS

Abbott Point of Care  
AdHawk Microsystems  
Alphawave Semi  
AMD Design Office  
Analog Devices  
Apple  
ARM  
Artaflex Inc. Ottawa  
Ascenta Technologies  
Aster Labs  
Astrus AI  
AutoMetrics Manufacturing Technologies Inc.  
Avnan  
Avocet Aerospace Technologies  
Banyan Photonics Canada Inc.  
Blumind  
BMV Optical Technologies  
BTA Design Services  
Cadence  
Calian  
Canadian Photonics Fabrication Centre (CPFC)  
Celestica Inc.  
Cerebras Design Office  
Cerio  
Ciena  
Cisco Systems Inc  
CMC Microsystems  
Corsa Technology Inc.  
Credo Technology Group  
DA-Integrated  
DENSO Manufacturing Canada  
EFFECT Photonics  
Eletech Semi  
Emcon Canada  
Emtar Technologies Inc.  
Enablence Technologies  
Ericsson Canada Inc.

Ethernovia  
Excelitas Technologies Corp.  
FiberTech Optica Inc.  
Fibics Incorporated  
Fidus Systems  
GC Photonics  
Granite Semiconductor  
Groq  
HaiLa Technologies  
Huawei  
IBM  
Iconopower Limited  
ICSPI  
ICT Power Company Inc.  
indie Semiconductor  
Infineon  
InPho  
Intel  
INTENGENT, Inc.  
Intlvac Thin Film Corporation  
IonQ  
Jabil Ottawa  
JGR Optics Inc.  
KA Imaging  
KAPIK  
Kimia Analytics  
Keysight Technologies  
Leonardo DRS  
Lightmatter, Inc.  
LightMachinery  
Logas Manufacturing Corporation  
Lumatus  
Lumentum  
Lumibird Limited  
Marvell Technologies  
Microart Services  
Microbonds

Microchip Technology (including Microsemi)  
MKS Instruments  
Process Products  
Movellus  
MuAnalysis, Inc.  
Nanowave Technologies  
National Research Council (NRC)  
NETINT Technologies  
Neuron IP  
NewPhotonics Inc.  
Nokia  
NordSpace Corp  
NVIDIA  
NXP Semiconductors  
OCM Manufacturing  
ON Semi  
OZ Optics  
PEER Group  
Peraso Technologies  
Pfeiffer Vacuum / Busch Canada  
POET Technologies Inc.  
Power Integrations  
Canada ULC  
PPI Systems Inc.  
PWB Interconnect Solutions Inc.  
Qnity Electronics  
Qualcomm  
RAMBUS  
Ranovus Inc.  
Renesas Electronics Canada  
Rohde & Schwarz Canada Inc.  
Sanmina  
Santec Canada Corporation  
Sciencetech Inc.  
Scintil Photonics

Semtech Canada Corporation  
Ottawa Design Centre  
Sheba Microsystems  
Sierra Wireless  
Skyworks Solutions Canada  
SOC (System-On-Chip Technologies)  
Solantro Semiconductor  
Solid State AI  
Sparq Systems  
Spectrum Control  
Stathera  
StarIC  
STMicroelectronics  
Synopsys  
Syntronic R&D Canada  
Swiftlink Technologies  
Taalas  
TechInsights  
Technic Inco  
Teledyne DALSA  
Teledyne MEMS  
Tenstorrent  
Testforce Systems  
The SIX Semiconductor  
Tornado Spectral Systems  
TriCim Corporation  
TSMC Design Technology Canada Inc.  
TTM Technologies  
ULKASEMI  
Untether AI  
VIAVI Solutions Canada  
VueReal  
Westboro Photonics  
WL Photonics Inc.  
World Star Tech  
Xanadu  
Xilinx

## EDA / Manufacturing / Materials & Equipment

Abbott Point of Care  
Ansys  
ARM  
Artaflex Inc. Ottawa  
Ascenta Technologies  
Astrus AI  
AutoMetrics Manufacturing Technologies Inc.  
Avnan  
Avocet Aerospace Technologies Inc.  
Bluewrist Inc.  
BMV Optical Technologies  
BTA Design Services  
Cadence  
Canadian Photonics Fabrication Centre (CPFC)  
CAPLINQ Corporation  
Celestica Inc.  
CMC Microsystems  
Eletech Semi  
Emcon Canada  
Engis Corp.

EWA-Canada  
FiberTech Optica Inc.  
Fibics Incorporated  
Fidus Systems  
IBM  
ICSPI  
ICT Power Company Inc.  
Intlvac Thin Film Corporation  
Jabil Ottawa  
JGR Optics Inc.  
KA Imaging  
KAPIK  
Keysight Technologies  
LightMachinery  
Logas Manufacturing  
Lumentum  
MDS Aero Support Corporation  
MKS Instruments  
Process Products  
Microbonds  
Movellus  
MuAnalysis, Inc.

National Research Council (NRC)  
Nemko Canada  
Neuron IP  
Neutronics Solutions  
Nordion  
NuPure Corporation  
OCM Manufacturing  
OZ Optics  
PEER Group  
PPI Systems  
PWB Interconnect Solutions  
RAMBUS  
Rohde & Schwarz Canada  
Sanmina  
Santec Canada Corporation  
Sciometric Instruments  
Sciencetech Inc.  
ShapeGrabber  
Siemens  
SOC (System-On-Chip Technologies)

Solid State AI  
Spectrum Control  
Synopsys  
Syntronic R&D Canada  
TechInsights  
Technic Inco  
Teledyne DALSA  
Teledyne MEMS  
Tornado Spectral Systems  
Transcat Canada  
TriCim Corporation  
TSMC Design Technology Canada Inc.  
TTM Technologies Toronto  
TUV SUD Canada  
ULKASEMI  
VIAVI Solutions Canada  
Westboro Photonics  
World Star Tech

## Hardware Architectures, Modules

Absopulse Electronics  
Acentury  
Adtran Networks Canada  
Agile Electromagnetics  
AI-Spectral  
Allen Vanguard  
Alphawave Semi  
Apple  
Arkalumen  
Armstrong Monitoring  
AttoTude  
Balluff Inc.  
Beckhoff Automation  
Bluewrist  
Boeing Canada  
Bornea Dynamics Limited  
BRAEBON Medical Corporation  
CAE Canada  
Calian  
Canadian Bank Note (CBN)  
C-COM Satellite Systems  
Celestica  
Ciena  
Cisco Systems  
Collins Aerospace Canada  
Control Systems & Semiconductor

Corsa Technology Inc.  
Crypto4A Technologies  
Curtiss-Wright  
DA-Integrated  
Dell Technologies  
DENSO Manufacturing Canada  
DEW Engineering  
Edge Signal  
Edgewater Wireless Systems  
EFFECT Photonics  
Emcon Canada  
Enablence  
Enedym  
ePIC Blockchain Technologies  
Epiphan Systems  
Ericsson Canada  
Eurocom Corporation  
Evertz Microsystems  
Excelitas Technologies  
Ford Motor Co. Research and Engineering Centre  
Gastops  
GBatteries  
General Dynamics Mission Systems Canada  
Geotab  
Groq  
Hiboo Networks  
Honeywell Aerospace

Huawei  
Instantel  
International Datacasting Corporation  
J-Squared Technologies  
Kepler Communications  
Kimia Analytics  
Kiwi Charge  
L3Harris Technologies Canada  
Leapfrog Lighting  
Leonardo DRS  
Lightmatter, Inc.  
Lockheed Martin Canada  
Lumibird Limited  
Magna International  
March Networks  
MC Countermeasures Inc.  
MDA (MacDonald, Dettwiler and Associates)  
MDS Aero Support Corporation  
Mevex  
Mircom Technologies  
Mitel  
Motorola Solutions Canada  
Nanometrics  
Nanowave Technologies  
Neutron Controls  
Nexeya Canada  
Nokia

NordSpace Corp  
Nureva  
ORBCOMM Canada  
Pixelink  
Pleora Technologies  
PPI Systems Inc.  
PROVA Innovations  
RBR  
Respect Industries Corporation  
Rheinmetall Canada Inc.  
Ribbon Communications  
Ross Video  
Satcom Direct Avionics  
Siemens  
Sierra Wireless  
Sigicom Canada, Inc.  
SKYTRAC  
Solace  
Solantro Semiconductor  
Spectrum Control  
Square Peg Communications  
Starvoy Communications  
Studio 1 Labs  
Syntronic R&D Canada  
TekStart  
Telesat Corporation  
Thales Canada  
ThinkRF  
Zhong

## Software Architecture

AI Talos Inc.  
AI-Spectral  
Ansys  
Apple  
Applied Brain Research  
Ascenta Technologies  
Bluewrist Inc.  
Boeing Canada  
CAE Canada

Collins Aerospace Canada  
Ford Motor Co. Research and  
Engineering Centre  
Gastops Ltd.  
General Dynamics Mission  
Systems Canada  
indie Semiconductor  
International Datacasting  
Corporation  
Irdeto Canada Corporation

Kepler Communications  
Kiwi Charge  
L3Harris Technologies  
Canada  
Lockheed Martin Canada  
Mavenir Systems North  
America Ltd.  
Optiwave Systems  
QNX Software (BlackBerry)

Rheinmetall Canada  
Sectigo  
Solace  
TechSols Inc.  
Telesat Corporation  
Thales Canada  
Wind River Systems  
Zenduit

## Software Technology

Accenture  
Acentury  
AdHawk Microsystems  
Adtran Networks Canada  
AI Talos Inc.  
AI-Spectral  
Allen Vanguard  
Ansys  
Apple  
Applied Brain Research  
Ascenta Technologies  
Astrus AI

BluWave-ai  
Cadence  
CAE Canada  
Calian  
Crypto4A Technologies  
Davis, W.R. Engineering  
Edge Signal  
Ford Motor Co. Research and  
Engineering Centre  
Fortinet  
Geotab  
Hepzibah AI

Irdeto Canada  
Kongsberg Geospatial  
March Networks  
Mavenir Systems  
Mircom Technologies  
Movellus  
MuAnalysis  
Neutronics Solutions  
North Star Utilities  
Nureva  
Optiwave Systems  
PEER Group

Pleora Technologies  
Sciometric Instruments  
Searidge Technologies  
Sectigo  
Siemens  
Solid State AI  
Synopsys  
TechInsights  
TechSols Inc.  
Vivid Machines  
Wind River Systems  
Zenduit



# Ontario Semiconductor and Hardtech Companies from A to Z

## A

### **Abbott Point of Care**

[www.abbottpointofcare.com](http://www.abbottpointofcare.com)  
185 Corkstown Rd., Ottawa, ON

*Develops diagnostic medical devices enabling rapid near-patient testing; uses MEMS design methods in its sensing hardware. They have an end-to-end fab and advanced manufacturing facility in Ottawa, ON.*

### **Absopulse Electronics Ltd.**

[www.absopulse.com](http://www.absopulse.com)  
110 Walgreen Rd, Carp, ON

*Designs and manufactures power conversion systems for industrial, transportation, and defence applications.*

### **Accenture**

[www.accenture.com](http://www.accenture.com)  
150 Elgin St., Ottawa, ON

*Semiconductor design services for digital signal processing and defence; acquired XtremeEDA Ottawa EDA team.*

### **Acentury**

[acentury.co](http://acentury.co)  
120 West Beaver Creek Rd Unit 13, Richmond Hill, ON

*Engineering and digital technology solutions supporting product development and deployment. Their work spans electronics, systems integration, and enterprise technology solutions.*

### **AdHawk Microsystems**

[www.adhawkmicrosystems.com](http://www.adhawkmicrosystems.com)  
595 Bay Street, Suite 1201, Toronto, ON

*Develops eye-tracking technology using MEMS-based optical micro-systems and proprietary low-power sensing ASICs.*

### **Adtran Networks Canada**

[www.adtran.com](http://www.adtran.com)  
555 Legget Dr. / 1233 Innovation Dr., Ottawa, ON

*Builds fibre-access, optical-transport, and network software platforms; Ottawa facility focuses on optical networking hardware.*

### **Agile Electromagnetics**

[www.agileelm.com](http://www.agileelm.com)  
614-1175 Maritime Way, Kanata, ON

*Canadian defence technology firm developing next-generation electromagnetic systems and RF hardware for electronic warfare.*

### **AI Talos Inc.**

[www.aitalos.com](http://www.aitalos.com)  
603 March Rd, Ottawa, ON

*Ottawa company applying AI to imaging and health-focused analysis; develops vision-processing hardware for aerospace applications.*

### **AI-Spectral**

[www.ai-spectral.com](http://www.ai-spectral.com)  
390 March Road, Suite 124, Kanata, ON

*AI-based spectral imaging solutions; analytics and ML for healthcare and insurance vertical markets.*

### **Allen Vanguard**

[www.allenvanguard.com](http://www.allenvanguard.com)  
2405 St. Laurent Blvd K, Ottawa, ON

*Delivers electronic countermeasures and counter-UAS capabilities for military and security markets.*

### **Alphawave Semi**

[www.awavesemi.com](http://www.awavesemi.com)  
495 March Rd, Suite 100, Kanata, ON

*Vertically integrated semiconductor company; designs high-speed SerDes, controller, and optical IC IP.*

### **AMD Design Office**

[www.amd.com](http://www.amd.com)  
1 Commerce Valley Dr, Markham, ON

*Global semiconductor leader in CPUs, GPUs, and FPGAs. Markham office supports R&D and engineering functions; acquired Altera (FPGAs) and Xilinx.*

### **Analog Devices**

[www.analog.com](http://www.analog.com)  
2611 Queensview Dr Suite 200, Ottawa, ON

*Designs and manufactures analog, mixed-signal, power, and RF semiconductors. Ottawa design centre supports high-performance converters and signal-chain ICs.*

### **Ansys**

[www.ansys.com](http://www.ansys.com)  
10 York Mills Rd, Suite 400, Toronto, ON

*Develops advanced engineering simulation and EDA software used for semiconductor design, photonics, signal integrity, thermal analysis, and multiphysics modelling. Tools are widely used in IC design, packaging, and system-level validation across semiconductor and electronics industries.*

### **Apple**

[www.apple.com](http://www.apple.com)  
411 Legget Dr, Ottawa, ON

*Consumer technology company that designs advanced custom semiconductors (Apple Silicon). Ottawa office supports software and silicon R&D.*

### **Applied Brain Research**

[www.appliedbrainresearch.com](http://www.appliedbrainresearch.com)  
118 Woodbend Cres, Waterloo, ON

*Develops neuromorphic computing algorithms and hardware implementations; focuses on low-power AI inference on chip.*

### **Arkalumen**

[www.arkalumen.com](http://www.arkalumen.com)  
1750 Courtwood Crescent, Suite 308, Ottawa, ON

*Designs and manufactures intelligent LED controllers and modules for fixture manufacturers; semiconductor-based lighting control.*

### **ARM**

[www.arm.com](http://www.arm.com)  
3600 Steeles Ave., Markham, ON

*Designs processor architectures and semiconductor IP used in a wide range of devices globally. Foundational to mobile, automotive, and embedded computing systems.*

### **Armstrong Monitoring**

[www.armstrongmonitoring.com](http://www.armstrongmonitoring.com)  
215 Colonnade Road South, Ottawa, ON

*Specializes in gas-detection systems protecting people and facilities; semiconductor sensor and wireless communication hardware.*

**B****Artaflex Inc. Ottawa****www.artaflex.com**

360 Terry Fox Drive, Kanata, ON

*Integrated electronics manufacturer (EMS) serving OEMs with high-mix, high-reliability PCB assembly and systems integration.***Ascenta Technologies****www.ascenta.tech**

250 University Avenue, Suite 200, Toronto ON

*Offers silicon photonics process design kits (PDKs) in partnership with Advanced Micro Foundry (AMF); targets telecom and datacom IC design.***Astera Labs****www.asteralabs.com**

1380 Rodick Rd Suite 102B, Markham, ON

*Develops purpose-built connectivity semiconductor solutions (PCIe, CXL, Ethernet) for AI and cloud infrastructure. NASDAQ-listed (ALAB). HQ: San Jose, CA.***Astrus AI****www.astrus.ai**

80 Atlantic Avenue, Toronto, ON

*Develop AI-powered software that automates analog IC layout, improving speed and accuracy in chip design workflows. Designed for semiconductor teams working on complex analog and mixed-signal designs.***AttoTude****www.attotude.com**

340 Terry Fox Dr, Suite 310, Ottawa, ON

*Advancing data centre interconnect technology based on wired optical and copper; develops high-bandwidth low-latency link solutions.***AutoMetrics Manufacturing Technologies Inc.****www.autometricstech.com**

3600 Steeles Ave E, Markham, ON

*Develops ML-powered industrial inspection systems; machine-vision AI applied to manufacturing quality control.***Avnan****www.avnan.com**

2355 Royal Windsor Dr., Unit 12, Mississauga, ON

*Electronics design, manufacturing, and supply chain solutions provider partnering with OEMs to fulfill design, verification, and production needs.***Avocet Aerospace Technologies Inc.****www.avocetaerospace.com**

102-308 Legget Dr., Kanata, ON

*Engineering solutions supporting aerospace systems and advanced avionics; electronics design and test for aerospace programmes.***Balluff Inc.****www.balluff.com**

2840 Argentia Rd #1, Mississauga, ON

*Global supplier of industrial sensors, identification systems, and IO-Link solutions; Mississauga office serves Canadian automation market.***Banyan Photonics Canada Inc.****www.banyansemiconductor.com**

232 Herberg Rd, Unit #101, Ottawa, ON

*Develops photonic semiconductors for communication and sensing; InP-based photonic integrated circuits for high-speed datacom.***Beckhoff Automation****www.beckhoff.com/en-ca**

4 Schiedel Ct Unit 1-3, Cambridge, ON

*Industrial PC-based automation systems, EtherCAT motion control, and IoT edge hardware for manufacturing applications.***Best Medical Canada Limited****www.bestmedicalinternational.com**

413 March Rd, Kanata, ON

*Develops radiation therapy and oncology medical systems; semiconductor-based control and imaging hardware.***Bluewrist Inc.****www.bluewrist.com**

75 Tiverton Ct, Markham, ON

*Industrial automation solutions in robotics and machine vision; develops 3D vision-guided robotic systems for manufacturing.***Blumind****www.blumind.ai**

1835 Hutton Avenue, Ottawa, ON

*Founded 2020; develops all-analog AI neural-network inference chips on standard CMOS. AMPL architecture delivers 100–1000× power reduction vs. digital alternatives.***BluWave-ai****www.bluwave-ai.com**

62 Steacie Drive, Suite 102, Ottawa, ON

*AI platform optimizing energy grids, EV fleets, and storage systems through predictive analytics and control systems.***BMV Optical Technologies****www.bmv.ca**

26 Concourse Gate, Ottawa, ON

*Develops optical and mechanical solutions spanning design, manufacturing, and testing; high-precision optics for defence and industrial markets.***Boeing Canada****www.boeing.ca**

45 O'Connor Street, Suite 1220, Ottawa, ON

*Part of Boeing global aerospace and defence organization; Ottawa office focuses on government relations and systems integration for Canadian defence programmes.***Bornea Dynamics Limited****www.bornea.ca**

300-116 Albert St, Ottawa, ON

*Bornea Dynamics leads in aerospace defence and technology, specializing in CUAS, AI, machine learning, R&D, and program management.***BRAEBON Medical Corporation****www.braebon.com**

Suite 1-100 Schneider Rd, Kanata, ON

*PSG sensors, accessories, HST systems, and software for sleep medicine; develops proprietary medical-grade sensor hardware.***BTA Design Services****www.bta-ds.com**

84 Hines Rd Suite 310, Kanata, ON

*Accelerates ASIC and FPGA development; provides RTL design, verification, and implementation services for semiconductor customers.***Cadence****www.cadence.com**

4100 Yonge St Suite 502, Toronto, ON

*Provides EDA software and semiconductor IP used worldwide to design advanced integrated circuits, SoCs, and PCBs.***CAE Canada****www.cae.com**

350 Legget Dr Suite 200, Ottawa, ON

*Advanced simulation and training solutions for defence and aerospace; Ottawa office supports Canadian defence customers.***Calian****www.calian.com**

770 Palladium Dr, Ottawa, ON

*Technology and professional services company; Ottawa divisions support satellite, wireless, and engineering services for government and defence.***Calian GNSS****www.calian.com/advanced-technologies/gnss/**

36 Steacie Dr, Kanata, ON

*GNSS and satellite antennas for defence, autonomous vehicles, and precision agriculture; formerly Tallysman Wireless.***C**

## Canadian Bank Note (CBN)

[www.cbnco.com](http://www.cbnco.com)

145 Richmond Rd, Ottawa, ON

Develops secure technologies for identity, currency, and digital trust; semiconductor-based cryptographic and biometric hardware.

## Canadian Photonics Fabrication Centre (CPFC) - NRC

[www.nrc.canada.ca/en/research-development/research-collaboration/research-centres/security-disruptive-technologies-research-centre](http://www.nrc.canada.ca/en/research-development/research-collaboration/research-centres/security-disruptive-technologies-research-centre)

NRC Campus, Blair Rd, Ottawa, ON

NRC facility providing InP and GaAs photonic semiconductor fabrication R&D; supports Canadian photonics and semiconductor innovation ecosystem.

## CAPLINQ Corporation

[www.caplinq.com](http://www.caplinq.com)

80 Sirocco Cres., Ottawa, ON

Specialises in electromagnetic and RF shielding, encapsulants, and thermal interface materials for defence and semiconductor packaging applications.

## C-COM Satellite Systems

[www.c-comsat.com](http://www.c-comsat.com)

5140 Yonge St, Toronto, ON

Develops and manufactures auto-acquire satellite antennas for mobile broadband; semiconductor-based tracking and signal processing hardware.

## Celestica Inc.

[www.celestica.com](http://www.celestica.com)

5140 Yonge St, Toronto, ON

Canadian-headquartered electronics manufacturing and supply-chain company (TSX/NYSE: CLS); relevant as advanced EMS and optics module manufacturer serving semiconductor companies.

## Cerebras Design Office

[www.cerebras.ai](http://www.cerebras.ai)

150 King St W, Toronto, ON

Toronto design office of Cerebras Systems; develops wafer-scale AI processor chips and AI supercomputer hardware. HQ: Sunnyvale, CA.

## Cerio

[www.cerionetworks.com](http://www.cerionetworks.com)

500-515 Legget Dr, Ottawa, ON

Develops semiconductor solutions for high-speed data transfer in data centres; network-on-chip and switching silicon.

## Ciena

[www.ciena.com](http://www.ciena.com)

5050 Innovation Dr, Ottawa, ON

Designs networking and communication systems; Ottawa is a major R&D centre for coherent optical transceiver and WaveLogic ASIC design.

## Cisco Systems Inc.

[www.cisco.com](http://www.cisco.com)

2000 Innovation Dr, Ottawa, ON

Global networking leader; Ottawa R&D centre designs routing, switching, and optical networking ASICs and systems.

## CMC Microsystems

[www.cmc.ca](http://www.cmc.ca)

400 March Rd Suite 110, Kanata, ON

Not-for-profit organisation facilitating semiconductor prototyping, EDA tool access, and MPW fabrication runs for Canadian researchers and companies.

## Collins Aerospace Canada

[www.collinsaerospace.com](http://www.collinsaerospace.com)

30 Edgewater St Suite 104, Ottawa, ON

Defence and avionics systems integrating semiconductor technologies; Ottawa office supports Canadian government programmes.

## Control Systems & Semiconductor

[www.controlss.net](http://www.controlss.net)

Suite 147, 86-50 Burnhamthorpe Rd W, Mississauga, ON

Distributor/dealer of IGBTs, thyristors, rectifiers, motors, and power control semiconductors for industrial applications.

## Corsa Technology Inc.

[www.corsa.com](http://www.corsa.com)

300 March Rd Suite 400, Ottawa, ON

Semiconductor-based FPGA-accelerated networking solutions for open, disaggregated data-centre and telecom infrastructure.

## Credo Technology Group

[www.hyperlume.com](http://www.hyperlume.com)

Ottawa, ON

Advanced optical interconnect technologies for AI data centres; acquired (acquire not publicly confirmed at time of filing).

## Crypto4A Technologies

[www.crypto4a.com](http://www.crypto4a.com)

1550 Laperriere Ave Suite 203, Ottawa, ON

Develops hardware-based security modules (HSMs) and post-quantum cryptographic solutions designed for the quantum computing era.

## Curtiss-Wright Defense Solutions

[www.curtisswright.com](http://www.curtisswright.com)

333 Palladium Dr., Ottawa, ON

Provides rugged electronics, embedded computing, and engineered systems for aerospace and defence; Ottawa office supports Canadian DND programmes.

## DA-Integrated

[www.da-integrated.com](http://www.da-integrated.com)

27 Iber Rd., Ottawa, ON

Custom ASIC and microelectronics development services for defence and security applications; classified hardware design.

## Davis, W.R. Engineering

[www.wrda.com](http://www.wrda.com)

1260 Old Innes Rd, Ottawa, ON

Develops advanced modelling and simulation tools focused on electromagnetic analysis; EW and RF system design.

## Dell Technologies

[www.dell.com](http://www.dell.com)

1000 Innovation Dr Suite 300, Ottawa, ON

High-speed optical networking systems; Ottawa office inherited from Juniper Networks acquisition supporting routing/switching ASIC R&D.

## DENSO Manufacturing Canada

[www.denso.com](http://www.denso.com)

900 Southgate Dr, Guelph, ON

DENSO's Guelph operation manufactures automotive HVAC and engine-cooling modules; relevant to automotive electronics supply chain.

## DEW Engineering

[www.dewengineering.com](http://www.dewengineering.com)

3429 Hawthorne Rd, Ottawa, ON

Develops specialized vehicles, equipment, and integrated systems for defence and security; electronic systems integration.

## Edge Signal

[www.edgesignal.com](http://www.edgesignal.com)

390 March Rd Suite 110, Kanata, ON

Semiconductor-based signal processing systems for defence; software-defined radio and signal intelligence solutions.

## Edgewater Wireless Systems, Inc.

[www.edgewaterwireless.com](http://www.edgewaterwireless.com)

11 Hines Rd Unit 202, Ottawa, ON

Develops Wi-Fi solutions leveraging semiconductor-based multi-sector access-point technology for improved spectral efficiency.

D

E

## **EFFECT Photonics**

[www.effectphotonics.com](http://www.effectphotonics.com)

1 University Ave, Suite 203, Toronto, ON

*Designs integrated photonic chips and coherent optical modules for telecom and data communications networks.*

## **Eletech Semi**

[www.eletechsemi.com](http://www.eletechsemi.com)

3100 Steeles Ave E, Markham, ON

*Designs automated IC test handling equipment used in semiconductor production. Their systems enable efficient loading, unloading, and sorting of chips during high-volume testing.*

## **Emcon Canada**

[www.spectrumcontrol.com](http://www.spectrumcontrol.com)

360 Terry Fox Dr Suite 100, Kanata, ON

*Part of Spectrum Control; develops RF and electromagnetic filtering, shielding, and suppression solutions for defence electronics.*

## **Emtar Technologies Inc.**

[www.emtartechnology.com](http://www.emtartechnology.com)

Ottawa, ON

*Canadian fabless IC design company building next-generation 6G NTN wireless SoCs. Achieved silicon validation on TSMC process.*

## **Enablence Technologies**

[www.enablence.com](http://www.enablence.com)

119-390 March Rd., Ottawa, ON

*Designs and manufactures optical chips used by world-leading transceiver companies. We bring your vision to reality through rapid design, fabrication, and packaging of photonic semiconductors.*

## **Enedym**

[www.enedym.com](http://www.enedym.com)

Hamilton, ON

*Develops next-generation electric motor technologies aimed at improving efficiency and reducing reliance on rare earth materials. Their innovations target electrification across automotive and industrial systems.*

## **Engis Corp.**

[www.engis.com](http://www.engis.com)

340 Terry Fox Dr, Suite 310, Ottawa, ON

*Manufactures superabrasive lapping, grinding, honing, and polishing systems and consumables for semiconductor wafer processing, including compound semiconductor and photonic substrates.*

## **ePIC Blockchain Technologies**

[www.epicblockchain.io](http://www.epicblockchain.io)

4789 Yonge St, Suite 620, Toronto, ON

*Develops blockchain mining hardware and ASIC-based cryptocurrency mining solutions; Ontario-linked blockchain technology company.*

## **Epiphan Systems Inc.**

[www.epiphan.com](http://www.epiphan.com)

400 March Rd Suite 510, Ottawa, ON

*Hardware encoders and capture solutions for the full range of enterprise video and broadcast applications; FPGA-based signal processing.*

## **Ericsson Canada Inc.**

[www.ericsson.com](http://www.ericsson.com)

349 Terry Fox Dr, Ottawa, ON

*5G and AI-driven telecommunications systems; Ottawa R&D centre supports radio baseband IC and network architecture development.*

## **Ethernovia**

[www.ethernovia.com](http://www.ethernovia.com)

Toronto, ON

*Develops high-speed automotive Ethernet networking ICs enabling software-defined vehicles; 10 Gbps in-vehicle networking.*

## **Eurocom Corporation**

[www.eurocom.com](http://www.eurocom.com)

148 Colonnade Rd S, Ottawa, ON

*Designs fully customizable, GPU-upgradeable, long-lifespan high-performance laptops for defence, simulation, and enterprise markets.*

## **Evertz Microsystems**

[www.evertz.com](http://www.evertz.com)

5292 John Lucas Dr, Burlington, ON

*Manufactures broadcast equipment for on-demand services, WebTV, IPTV, and mobile devices; FPGA and semiconductor-based video processing hardware.*

## **EWA-Canada**

[www.ewa-canada.com](http://www.ewa-canada.com)

1223 Michael St N, 2nd floor, Ottawa, ON

*Testing, inspection, and certification services for semiconductor components and electronic systems.*

## **Excelitas Technologies Corp.**

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

2260 Argentia Rd, Mississauga, ON

*Global photonics technology company designing and manufacturing optical, sensing, detection, imaging, and illumination components and subsystems, including photodiodes, lasers, and optoelectronic modules used in semiconductor, biomedical, aerospace, and industrial applications.*

## **FiberTech Optica Inc.**

[www.fibertech-optica.com](http://www.fibertech-optica.com)

330 Gage Ave Suite 1, Kitchener, ON

*Designs and manufactures specialty fibre optic assemblies including bundles, arrays, probes, and cables for spectroscopy, astronomy, space, LIDAR, and biomedical applications.*

## **Fibics Incorporated**

[www.fibics.com](http://www.fibics.com)

1431 Merivale Rd Suite 100, Ottawa, ON

*Develops advanced FIB-SEM instrumentation for nanoscale imaging, failure analysis, and semiconductor process characterisation.*

## **Fidus Systems**

[www.fidus.com](http://www.fidus.com)

555 Legget Dr Suite 800, Kanata, ON

*Engineering services focused on complex electronic product development including FPGA, PCB, and embedded software for telecom and defence.*

## **Ford Motor Co. Research and Engineering Centre**

[www.ford.com](http://www.ford.com)

700 Palladium Dr, Stittsville, ON

*Ford's Ottawa research operations focus on vehicle electrification, connectivity, and autonomous driving systems with semiconductor integration.*

## **Fortinet**

[www.fortinet.com](http://www.fortinet.com)

16 Fitzgerald Rd, Ottawa, ON

*Develops cybersecurity platforms combining custom ASICs (FortiASIC™) and software to deliver high-performance network security.*

## **Gastops Ltd.**

[www.gastops.com](http://www.gastops.com)

1011 Polytek St, Ottawa, ON

*Develops sensor-based fluid monitoring and contamination detection systems for aerospace turbine health management.*

## **GBatteries**

[www.gbatteries.com](http://www.gbatteries.com)

555 Legget Drive, Suite 304, Kanata, ON

*Develops adaptive battery charging technology using embedded systems and control electronics to extend battery life and performance.*

F

G

### **GC Photonics**

[www.gcphotonics.com](http://www.gcphotonics.com)

300 Terry Fox Suite 900, Kanata, ON

Photonic component and system design company; develops optical solutions for telecommunications applications.

### **General Dynamics Mission Systems - Canada**

[www.gdmissionsystems.com](http://www.gdmissionsystems.com)

1941 Robertson Rd, Ottawa, ON

Delivers secure communications, cybersecurity, and mission systems for Canadian and allied defence customers.

### **Geotab Inc.**

[www.geotab.com](http://www.geotab.com)

2440 Winston Park Drive, Oakville, ON

Develops telematics hardware and software platforms for fleet management, integrating sensors, connectivity, and analytics.

### **Granite Semiconductor**

[www.granitesemi.com](http://www.granitesemi.com)

277 Lakeshore Rd E Suite 207, Oakville, ON

Designs GaN and SiC power semiconductor ICs for high-efficiency power conversion and motor drive applications.

### **Groq**

[www.groq.com](http://www.groq.com)

20 Queen St W, Toronto, ON

Develops high-performance AI accelerator chips designed for ultra-fast inference. Their hardware architecture supports large-scale AI workloads in data centers and enterprise applications.

### **Haila**

[www.haila.io](http://www.haila.io)

Ottawa, ON

Develops ultra-low power wireless semiconductor solutions using backscatter communication technology. Their chips enable energy-efficient IoT connectivity for smart infrastructure and industrial applications.

### **Hepzibah AI**

[www.hepzibah.ai](http://www.hepzibah.ai)

Toronto, ON

Develops next-generation energy-efficient AI inference IP for chipmakers to integrate into SoCs.

### **Hiboo Networks**

[www.hiboonetworks.com](http://www.hiboonetworks.com)

Suite 620, 555 Legget Dr, Tower B, Kanata, ON

Delivers ultra-fast fibre optic internet service up to 100 Gbps; semiconductor-based optical networking infrastructure provider.

### **Honeywell Aerospace**

<https://aerospace.honeywell.com>

400 Maple Grove Rd, Ottawa, ON

Develops avionics, satellite communications, and navigation systems; Ottawa site focuses on satcom and DSP-based aerospace hardware.

### **Huawei**

[www.huawei.com/ca](http://www.huawei.com/ca)

303 Terry Fox Dr, Kanata, ON

Canadian R&D centre supporting advanced telecommunications infrastructure including wireless networks, optical transport, and AI hardware research.

### **IBM**

[www.ibm.com/ca-en](http://www.ibm.com/ca-en)

3600 Steeles Ave E, Markham, ON

IBM Bromont (QC) is a major semiconductor packaging and advanced manufacturing facility; Markham ON is principal Ontario office.

### **Iconopower Limited**

[www.iconopower.com](http://www.iconopower.com)

1051 Ages Dr, Ottawa, ON

Semiconductor power conversion solutions for renewable energy applications; wide-bandgap power IC design.

### **ICSPI**

[www.icspicorp.com](http://www.icspicorp.com)

200 University Ave W, Waterloo, ON

Develops miniaturised atomic force microscopy instruments and nano-fabrication tools for semiconductor and life sciences markets.

### **ICT Power Company Inc.**

[www.ictpower.com](http://www.ictpower.com)

1051 Ages Dr, Ottawa, ON

Supplies semiconductor fuses and related power-protection products; relevant to the electronics power supply chain.

### **indie Semiconductor**

[www.indie.inc](http://www.indie.inc)

105 Commerce Valley Dr. West, Toronto, ON

Develops automotive chips and software platforms for edge sensing applications including LiDAR, radar, and computer vision. Their mixed-signal SoCs support advanced driver assistance systems (ADAS) and vehicle electrification.

### **Infineon**

[www.infineon.com](http://www.infineon.com)

1000 Innovation Dr Suite 591 & 1145 Innovation Dr, Ottawa, ON

Global semiconductor leader in power, automotive, and IoT ICs; acquired GaN Systems (Ottawa). Ottawa centre is global GaN power IC design hub.

### **InPho**

[www.inpho.io](http://www.inpho.io)

202-255 Michael Cowpland Dr, Kanata, ON

Designs photonic ICs in InP for telecommunications, datacom, and microwave photonics applications.

### **Instantel Inc.**

[www.instantel.com](http://www.instantel.com)

309 Legget Dr, Kanata, ON

Develops seismic monitors, noise dosimeters, and vibration monitoring instruments for construction and mining; semiconductor-based sensing hardware.

### **Intel**

[www.intel.com](http://www.intel.com)

535 Legget Dr, Ottawa, ON

Programmable logic (Altera/Stratix FPGAs) and AI accelerator semiconductor design; Ottawa office is a major FPGA design centre.

### **INTENGENT, Inc.**

[www.intengent.com](http://www.intengent.com)

555 Legget Dr Suite 304, Ottawa, ON

Fabless development of III-V photonic integrated circuits (PICs) in InP for high-speed datacom and defence sensing.

### **International Datacasting Corporation**

[www.idc.ca](http://www.idc.ca)

10 Brewer Hunt Way, Kanata, ON

Develops satellite and IP-based data distribution solutions for broadcast and government customers.

### **Intlvac Thin Film Corporation**

[www.intlvac.com](http://www.intlvac.com)

247 Armstrong Ave Units 6-11, Halton Hills, ON

Designs, engineers, and manufactures thin-film PVD, etch, and PECVD deposition systems used in semiconductor, photonics, and MEMS fabrication.

### **IonQ**

[www.ionq.com](http://www.ionq.com)

2300 Yonge Street, Toronto, ON

IonQ is a quantum computing company; acquired Entangled Networks (Canadian quantum networking startup).

H

I

**J****Irdeto Canada Corporation****www.irdeto.com**

2500 Solandt Rd, Kanata, ON

*Content protection and security solutions for media, automotive, and IoT sectors; hardware-based DRM and secure key management.***J-Squared Technologies****www.jsquared.com**

4015 Carling Ave, Kanata, ON

*Leading provider of rugged embedded computing technologies and lifecycle support services (MRO, ISS, PLM) for mission-critical land, sea, and air applications.***Jabil Ottawa****www.jabil.com**

1 Brewer Hunt Way Suite 9, Kanata, ON

*Global electronics manufacturing services (EMS) company; Ottawa facility supports advanced photonics packaging lab, product design, prototyping, and high-volume production.***JGR Optics Inc.****www.jgroptics.com**

160 Michael Cowpland Dr, Ottawa, ON

*Manufactures fibre-optic test and measurement equipment including backreflection meters, optical switches, attenuators, and tunable laser sources.***KA Imaging****www.kaimaging.com**

560 Parkside Dr, Unit 3, Waterloo, ON

*Develops advanced X-ray imaging systems using spectral detection technology. Their solutions improve diagnostic accuracy and imaging performance.***KAPIK****www.kapik.com**

95 St Clair Ave W Suite 1300, Toronto, ON

*Toronto-based (founded 2008) analog and mixed-signal ASIC design services company; specialises in custom IC design for IoT and telecom.***Kepler Communications****www.keplercommunications.com**

Toronto, ON

*Designs, builds, launches, and operates an advanced network of LEO satellites for global IoT and data connectivity; semiconductor-based satellite hardware.***Keysight Technologies****www.keysight.com**

350 Terry Fox Dr Suite 102, Kanata, ON

*Develops advanced test and measurement solutions used across semiconductor, wireless, and aerospace markets.***Kimia Analytics****www.kimiaanalytics.com**

Toronto, ON

*Develops compact, high-performance mass spectrometry systems for rapid elemental and chemical analysis, including a portable triple-quadrupole ICP-MS platform.***Kiwi Charge****www.kiwicharge.ca**

Toronto, ON

*Develops autonomous mobile EV charging robots; semiconductor-based robotics and power electronics for EV fleet charging applications.***Kongsberg Geospatial****www.kongsberggeospatial.com**

411 Legget Dr Suite 400, Kanata, ON

*Geospatial visualisation and mission-planning software for defence and aerospace; semiconductor-based display and processing hardware.***L****L3Harris Technologies Canada****www.l3harris.com**

255 Albert St Suite 804, Ottawa, ON

*Delivers advanced communications, sensing, and electronic warfare systems for defence, aerospace, and national security.***Leapfrog Lighting****www.leapfroglighting.com**

400 March Rd, Ottawa, ON

*Develops energy-efficient LED lighting systems with integrated semiconductor components for commercial and industrial markets.***Leonardo DRS****www.leonardodrs.com**

2500 Solandt Rd, Suite 300, Ottawa, ON

*Develops defence electronic systems including sensors, communications, and mission-critical hardware for military platforms.***LightMachinery****www.lightmachinery.com**

80 Colonnade Rd., Unit 1, Ottawa, ON

*Designs and manufactures laser-based precision machining systems, optical components, and laser sources for semiconductor, photonics, and medical industries.***Lightmatter, Inc.****www.lightmatter.co**

18 King St E, Suite 1200, Toronto, ON

*Develops photonic computing and interconnect technologies using silicon photonics to enable high-bandwidth, energy-efficient AI infrastructure, including photonic chips and optical interconnect platforms for data centres.***Lockheed Martin Canada****www.lockheedmartin.com/en-ca**

501 Palladium Dr, Ottawa, ON

*Delivers defence and communication systems integrating advanced semiconductor technologies; Ottawa office supports Canadian DND programmes.***Logas Manufacturing Corporation****www.logasmfg.com**

36 Colonnade Rd, Ottawa, ON

*Precision manufacturing services supporting industrial and electronic components; PCB and mechanical fabrication for semiconductor-adjacent customers.***Lumatus****www.lumatus.com**

55 Northfield Dr E Suite 237, Waterloo, ON

*Develops optical technologies for advanced sensing and photonic communication applications; display and imaging photonics.***Lumentum****www.lumentum.com**

61 Bill Leatham Dr, Ottawa, ON

*Photonic and optical semiconductor components for telecommunications; Ottawa designs coherent optical transceivers and laser-chip modules.***Lumibird Limited****www.lumibird.com**

2680 Queensview Dr., Suite 120, Ottawa, ON

*Develops laser systems for medical, industrial, and defence applications; Ottawa office supports North American sales and engineering.***Magna International****www.magna.com**

337 Magna Dr, Aurora, ON

*Global Tier-1 automotive supplier headquartered in Aurora, Ontario; develops advanced driver assistance, electrification, and body/chassis systems with significant semiconductor content.***M**

## **March Networks**

[www.marchnetworks.com](http://www.marchnetworks.com)

303 Terry Fox Dr Suite 200, Ottawa, ON

Develops semiconductor-based video surveillance and security management systems for transit, banking, and retail markets.

## **Marvell Technologies**

[www.marvell.com](http://www.marvell.com)

340 Legget Dr, Suite 100 & 535 Legget Dr, Kanata, ON

Designs semiconductor solutions for data infrastructure including networking, storage, and custom silicon for cloud customers.

## **Mavenir Systems**

[www.mavenir.com](http://www.mavenir.com)

84 Hines Rd Suite 100, Ottawa, ON

Develops cloud-native software and network solutions for telecom operators including Open RAN, 5G core, and VoLTE platforms; Ottawa office supports Canadian telcos.

## **MC Countermeasures**

[www.mccountermeasures.com](http://www.mccountermeasures.com)

555 Legget Dr Suite 500, Ottawa, ON

Develops electronic countermeasure systems for RF threat protection in defence applications.

## **MDA (MacDonald, Dettwiler and Associates)**

[www.mda.space](http://www.mda.space)

302 Legget Dr, Kanata, ON

Canadian space technology company; develops satellite systems, ground-based optical capabilities for space surveillance, robotics, and geointelligence solutions. Semiconductor used in space-grade hardware.

## **MDS Aero Support Corporation**

[www.mdsaero.com](http://www.mdsaero.com)

1220 Old Innes Rd Suite 200, Ottawa, ON

Testing systems for the aerospace industry; altitude, temperature, and environmental simulation test equipment for aerospace electronics.

## **Mevex**

[www.steris.com](http://www.steris.com)

200D Terence Matthews Cres, Kanata, ON

High-energy electron beam and X-ray radiation systems used in medical device sterilization and industrial processing applications.

## **Microart Services**

[www.microart.com](http://www.microart.com)

11 Allstate Pkwy, Markham, ON

Provides electronics manufacturing services including PCB assembly, prototyping, and full lifecycle production.

## **Microbonds**

[www.microbonds.com](http://www.microbonds.com)

151 Bentley St, Markham, ON

Develops advanced interconnect materials and technologies used in semiconductor packaging and electronic assembly.

## **Microchip Technology (including Microsemi)**

[www.microchip.com](http://www.microchip.com)

400 March Rd Suite 300, Kanata, ON

Provides microcontrollers, analog components, timing devices, and connectivity solutions. Kanata (Microsemi heritage) is a major timing IC and power management design centre.

## **Mircom Technologies**

[www.mircom.com](http://www.mircom.com)

15 Cappella Ct Unit 111, Nepean, ON

Fire safety and security solutions using semiconductors for communication and detection systems.

## **Mitel**

[www.mitel.com](http://www.mitel.com)

4000 Innovation Dr, Kanata, ON

Secure unified communications systems for defence and enterprise; semiconductor-based telephony and collaboration hardware.

## **MKS Instruments**

[www.mksinst.com](http://www.mksinst.com)

20 Cope Dr, Kanata, ON K2M 2V8

Supplies critical equipment, subsystems, and process solutions used in semiconductor manufacturing and advanced process control including gas delivery, plasma, and pressure measurement.

## **Motorola Solutions Canada**

[www.motorolasolutions.com](http://www.motorolasolutions.com)

8133 Warden Ave, Markham, ON

Develops public safety communications systems including radios, command centre software, and video security; semiconductor-based mission-critical communications hardware.

## **Movellus**

[www.movellus.com](http://www.movellus.com)

Toronto, ON (HQ: Sunnyvale, CA)

Develops semiconductor IP for clocking and timing solutions in advanced AI and data-centre ICs; Canadian R&D office.

## **MuAnalysis, Inc.**

[www.muanalysis.com](http://www.muanalysis.com)

2301 St. Laurent Blvd Suite 500, Ottawa, ON

Provides advanced failure analysis and materials characterisation services for semiconductor and electronic components.

## **Nanometrics Inc.**

[www.nanometrics.ca](http://www.nanometrics.ca)

3001 Solandt Rd, Kanata, ON

Develops high-precision seismic monitoring instruments and networks; semiconductor-based data acquisition systems for earthquake and geophysical research.

## **Nanowave Technologies**

[www.nanowavetech.com](http://www.nanowavetech.com)

6 Gurdwara Rd Unit 203, Ottawa, ON

RF, microwave, and millimeter-wave semiconductor modules and subsystems for aerospace and defence applications.

## **National Research Council (NRC)**

<https://nrc.canada.ca>

1200 Montreal Rd, Ottawa, ON

Canada's primary federal research body; supports semiconductor and photonics innovation through fabrication, testing, and collaborative R&D.

## **Nemko Canada Inc.**

[www.nemko.com/about-us-canada](http://www.nemko.com/about-us-canada)

303 River Road, Ottawa, ON

Premier product certification body and compliance test laboratory offering testing and certification services for EMC, radio, safety, telecom, and laser safety.

## **NETINT Technologies**

[www.netint.com](http://www.netint.com)

75 Tiverton Ct, Markham, ON

Develops silicon solutions for ultra-high-density video encoding and processing in the data centre; ASIC-based video transcoding chips.

## **Neuron IP**

[www.neuronip.com](http://www.neuronip.com)

130 King Street West, Toronto, ON

Provides custom IC design services, specializing in high-speed interface IP and analog/mixed-signal PHY design.

N

## Neutron Controls

[www.neutroncontrols.com](http://www.neutroncontrols.com)

5270 Solar Dr, Mississauga, ON  
Develops semiconductor-based battery management and power systems for military electric vehicles; ruggedized power electronics.

## Neutronics Solutions

[www.neutronicsinc.com](http://www.neutronicsinc.com)

350 Palladium Drive, Suite 102, Ottawa, ON  
Semiconductor-based solutions for environmental and energy management systems; process monitoring and control hardware.

## NewPhotonics Inc.

[www.newphotonics.com](http://www.newphotonics.com)

350 Legget Drive, Suite 304, Kanata, ON  
Develops high-speed optical interconnect and silicon photonics technologies for data centers and AI infrastructure.

## Nexeya Canada

[www.nexeya.com](http://www.nexeya.com)

400 Alden Rd, Markham, ON  
Defence communications and avionics systems using semiconductor technologies; part of Hensoldt global defence electronics group.

## Nokia

[www.nokia.com](http://www.nokia.com)

600 March Rd, Kanata, ON  
Delivers end-to-end telecom infrastructure; Ottawa R&D is a global centre for optical networking ASIC and system design.

## Nordion

[www.nordion.com](http://www.nordion.com)

47 March Road, Ottawa, ON  
Leading provider of Cobalt-60 and gamma processing systems for medical device and pharmaceutical sterilization industries.

## NordSpace Corp

[www.nordspace.com](http://www.nordspace.com)

455 Cochrane Dr. Unit 24, Markham, ON  
Develops satellite manufacturing technology and launch support hardware; Ontario satellite technology company.

## North Star Utilities

[www.northstarutilities.ca](http://www.northstarutilities.ca)

1 Antares Dr. Ottawa, ON  
IP licensing and consulting services for semiconductor companies in telecom and wireless markets.

## NuPure Corporation

[www.nupure.ca](http://www.nupure.ca)

106 Schneider Rd, Kanata, ON  
Filtration and ultra-pure chemical management systems for semiconductor fabrication processes.

## Nureva Inc.

[www.nureva.com](http://www.nureva.com)

411 Legget Dr, Kanata, ON  
Develops audio conferencing and collaboration systems using patented Microphone Mist technology; products target education and enterprise hybrid meeting rooms.

## NVIDIA

[www.nvidia.com](http://www.nvidia.com)

431 King St W, Toronto, ON  
Global GPU and AI chip leader; Toronto AI Lab focuses on deep learning research and chip architecture for AI workloads.

## NXP Semiconductors

[www.nxp.com](http://www.nxp.com)

1 Hines Rd, Kanata, ON  
Designs secure connectivity and embedded processing ICs for automotive, IoT, and industrial markets; Ottawa office supports automotive networking IC design.



## OCM Manufacturing

[www.ocmmanufacturing.com](http://www.ocmmanufacturing.com)

2183 Thurston Dr, Ottawa, ON  
ISO-certified contract electronics manufacturer providing PCB assembly, supply chain management, design engineering, and prototyping services for low- to mid-volume OEM products.

## ON Semi

[www.onsemi.com](http://www.onsemi.com)

300 March Road, Kanata, ON  
Global semiconductor company designing power management, analog, and sensing ICs for automotive, industrial, and cloud power markets.

## Optiwave Systems

[www.optiwave.com](http://www.optiwave.com)

7 Capella Ct, Ottawa, ON  
Develops photonics simulation software enabling engineers to design optical waveguides, PICs, and fibre-optic communication systems.

## ORBCOMM Canada

[www.orbcomm.com](http://www.orbcomm.com)

750 Palladium Dr, Suite 368, Ottawa, ON  
Satellite communication systems integrating semiconductor technology for IoT asset tracking and logistics monitoring.

## OZ Optics

[www.ozoptics.com](http://www.ozoptics.com)

219 Westbrook Rd, Ottawa, ON  
Designs and manufactures fibre-optic components, test equipment, and optical assemblies for telecom and sensing markets.

## PEER Group

[www.peergroup.com](http://www.peergroup.com)

595 Phillip Street, Waterloo, ON  
Largest supplier of factory automation software products for semiconductor equipment; specialises in process control and equipment communication.

## Peraso Technologies

[www.perasoinc.com](http://www.perasoinc.com)

2 Meridian Road, Toronto, ON  
Develops millimeter-wave semiconductor solutions for 60 GHz Wi-Fi (WiGig) and 5G fixed wireless access applications.

## Pfeiffer Vacuum / Busch Canada

[www.buschvacuum.com](http://www.buschvacuum.com)

Mississauga, ON  
Provides vacuum systems used in semiconductor fabrication and advanced manufacturing. Their equipment is essential for controlled cleanroom processes.

## Pixelink

[www.pixelink.com](http://www.pixelink.com)

1000 Innovation Dr, Suite 100, Ottawa, ON  
Industrial and microscopy camera business serving machine vision, OEM, and inspection markets; CMOS sensor-based scientific cameras.

## Pleora Technologies

[www.pleora.com](http://www.pleora.com)

450 March Road, Suite 500, Kanata, ON  
Develops connectivity hardware and software for mission-critical imaging and data transport. AI-based vision systems integrating semiconductor components for real-time data transfer in medical imaging and defence applications.

## POET Technologies Inc.

[www.poet-technologies.com](http://www.poet-technologies.com)

120 Eglinton Ave E, Suite 1107, Toronto, ON  
Designs highly integrated opto-electronic solutions and photonic integrated circuits (PICs). POET Optical Interposer enables wafer-level integration of electronics and photonics.



## **Power Integrations Canada**

[www.power.com](http://www.power.com)

150 Hines Road, Suite 120, Ottawa, ON

*Designs high-voltage power conversion semiconductor improving energy efficiency in electronic systems; Ottawa design centre.*

## **PPI Systems Inc.**

[www.ppi-systems.com](http://www.ppi-systems.com)

1051 Baxter Road, Ottawa, ON

*Develops laser-based systems for semiconductor wafer scribe-and-break, precision cutting, and processing applications.*

## **PROVA Innovations Ltd.**

[www.provainnovations.com](http://www.provainnovations.com)

Ottawa, ON

*Engineering firm specializing in advanced hardware development, photonics, and semiconductor system design, supporting prototyping, product development, and integration for high-performance technology applications.*

## **PWB Interconnect Solutions Inc.**

[www.pwbtech.com](http://www.pwbtech.com)

103 - 235 Menten Place, Ottawa, ON

*Develops test equipment for printed circuit board (PCB) reliability testing including ionic contamination and cleanliness testing systems.*

## **Qnity Electronics**

[www.qnityelectronics.com](http://www.qnityelectronics.com)

461 Front Rd, Kingston, ON

*Develops advanced materials and process technologies for semiconductor manufacturing, originating from DuPont's electronics division, supporting next-generation fabrication and packaging.*

## **QNX Software (BlackBerry)**

<https://blackberry.qnx.com>

1001 Farrar Road, Ottawa, ON

*Secure real-time operating system (RTOS) for automotive and industrial semiconductor applications; BlackBerry subsidiary.*

## **Qualcomm**

[www.qualcomm.com](http://www.qualcomm.com)

Ottawa, Waterloo, Toronto, ON

*Designs Snapdragon SoC, modem, and AI processor ICs for automotive, IoT, and mobile markets; multiple Ontario design offices.*

## **RAMBUS**

[www.rambus.com](http://www.rambus.com)

Toronto, ON

*Develops high-speed memory interface PHY IP (DDR, HBM, PCIe SerDes) for data-centre and AI semiconductor customers.*

## **Ranovus Inc.**

[www.ranovus.com](http://www.ranovus.com)

11 Hines Rd #101, Kanata, ON

*Develops multi-wavelength III-V quantum-dot laser and photonic IC solutions for co-packaged optics in AI data centres.*

## **RBR Ltd.**

[www.rbr-global.com](http://www.rbr-global.com)

359 Terry Fox Dr, Kanata, ON

*Develops oceanographic instruments tracking water parameters including CTD, dissolved gases, and pH for marine research and environmental monitoring.*

## **Renesas Electronics Canada**

[www.renesas.com](http://www.renesas.com)

603 March Rd, Kanata, ON

*Develops microcontrollers, analog, power, and SoC solutions for automotive, industrial, and IoT markets; supports North American automotive IC design.*

## **Respect Industries Corporation**

[www.respectindustries.com](http://www.respectindustries.com)

2760 Fenton Rd, Gloucester, ON

*Semiconductor-based components and assemblies for consumer electronics and industrial applications; contract electronics manufacturing.*

## **Rheinmetall Canada Inc.**

[www.rheinmetall.com](http://www.rheinmetall.com)

99 Metcalfe St, #304, Ottawa, ON

*Develops defence and automotive systems including sensors, electronics, and mission-critical hardware; Provectus Robotics subsidiary develops autonomous vehicle and robotics platforms.*

## **Ribbon Communications Canada**

[www.ribboncommunications.com](http://www.ribboncommunications.com)

500 Palladium Drive, Suite 2100, Ottawa, ON

*IP optical networking and voice infrastructure solutions for service providers and enterprises; semiconductor-based optical transport hardware.*

## **Rohde & Schwarz Canada Inc.**

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)

1 Hines Road, Suite 100, Kanata, ON

*Develops test and measurement equipment for wireless communications, aerospace, and defence; semiconductor verification tools.*

## **Ross Video**

[www.rossvideo.com](http://www.rossvideo.com)

232 Herzberg Rd #204, Kanata, ON

*Develops broadcast production equipment and live video solutions; FPGA and semiconductor-based real-time video processing hardware for media, sports, and government markets.*

## **Sanmina**

[www.sanmina.com](http://www.sanmina.com)

500 March Rd, Kanata, ON

*Electronics manufacturing services; Kanata facility specialises in optical, RF, defence, and industrial PCB/systems assembly.*

## **Santec Canada Corporation**

[www.santec.com](http://www.santec.com)

160 Michael Cowpland Drive, Kanata, ON

*45 years of fibre optic test instrument design and manufacturing; optical spectrum analysers and laser sources.*

## **Satcom Direct Avionics**

[www.satcomdirect.com](http://www.satcomdirect.com)

1260 Teron Rd, Kanata, ON

*Develops aeronautical satellite connectivity products including DSP-based SATCOM terminals and avionics communication hardware.*

## **Sciometric Instruments**

[www.sciometric.com](http://www.sciometric.com)

359 Terry Fox Drive, Suite 100, Ottawa, ON

*Develops systems for process monitoring, data collection, and quality analytics for automotive and industrial manufacturing.*

## **Sciencetech Inc.**

[www.sciencetech-inc.com](http://www.sciencetech-inc.com)

1450 Global Dr, London, ON

*Designs and manufactures optical spectroscopic instruments, solar simulators, monochromators, and photovoltaic testing equipment. Supplies NASA, ESA, and leading research institutes worldwide.*

## **Scintil Photonics**

[www.scintil-photonics.com](http://www.scintil-photonics.com)

Toronto, ON

*Develops integrated photonic solutions combining lasers with silicon photonics platforms for data-centre optical interconnects.*

Q

S

R

## **Searidge Technologies**

[www.searidgetech.com](http://www.searidgetech.com)

60 Camelot Drive, Suite 300, Ottawa, ON

*Develops AI-driven video analytics and sensor fusion platforms for airport operations and air traffic environments.*

## **Sectigo**

[www.sectigo.com](http://www.sectigo.com)

1125 Innovation Drive, Suite 200, Kanata, ON

*Provides cryptographic certificate management and PKI security solutions for semiconductor devices, IoT, and enterprise applications.*

## **Semtech Canada Corporation**

[www.semtech.com](http://www.semtech.com)

411 Legget Drive, Suite 600, Kanata, ON

*Designs semiconductors for IoT LoRa wireless, optical networking, and signal integrity; Ottawa is a major analogue/mixed-signal IC design centre.*

## **ShapeGrabber**

[www.ogpnet.com/products/metrology-systems/laser-scanning-systems](http://www.ogpnet.com/products/metrology-systems/laser-scanning-systems)

Ottawa, ON

*Develops automated 3D laser scanning and measurement systems for inspection and metrology in manufacturing.*

## **Sheba Microsystems**

[www.shebamicrosystems.ca](http://www.shebamicrosystems.ca)

47B Coldwater Road, North York, ON

*Develops MEMS inertial sensor IP and chips; fabless MEMS design company focused on gyroscopes and accelerometers for consumer and industrial markets.*

## **Siemens**

<https://eda.sw.siemens.com>

411 Leggett Drive, Suite 502, Kanata, ON

*Electronic design automation tools and IP for semiconductor systems; Kanata site includes Solido AI-powered EDA team and Mentor heritage.*

## **Sierra Wireless**

[www.sierrawireless.com](http://www.sierrawireless.com)

510 Legget Drive, Suite 200, Kanata, ON

*IoT cellular modem and embedded wireless hardware; Kanata site retains engineering team following Semtech acquisition of Sierra Wireless.*

## **Sigicom Canada, Inc.**

[www.sigicom.com](http://www.sigicom.com)

350 Palladium Drive, #104, Stittsville, ON

*Develops wireless vibration and environmental monitoring instruments for construction, mining, and infrastructure projects.*

## **SKYTRAC**

[www.skytrac.ca](http://www.skytrac.ca)

14 Concourse Gate #100, Ottawa, ON

*Develops radar altimeters and SATCOM avionics hardware with upgraded RF circuitry to mitigate 5G interference; flight safety tracking systems.*

## **Skyworks Solutions Canada**

[www.skyworksinc.com](http://www.skyworksinc.com)

1135 Innovation Dr, Kanata, ON

*Designs analog and RF semiconductors enabling wireless connectivity; Kanata office supports RF IC design for mobile and IoT markets.*

## **SOC (System-On-Chip Technologies)**

[www.soctechnologies.ca](http://www.soctechnologies.ca)

86 Rankin Street, Waterloo, ON

*Specializes in high-performance video CODEC IP cores, including MPEG2, H.264, and H.265 encoders, decoders, and transcoders. These CODECs deliver an exceptionally small silicon footprint, ultra-low latency, and minimal power consumption.*

## **Solace**

[www.solace.com](http://www.solace.com)

4000 Innovation Dr, 3rd Floor, Kanata, ON

*Develops event-driven data and messaging platforms for real-time information flow in distributed systems; FPGA-accelerated messaging hardware for financial and telecom markets.*

## **Solantro Semiconductor Corp.**

[www.solantro.com](http://www.solantro.com)

1100 Innovation Drive, Suite 104, Ottawa, ON

*Designs semiconductor solutions for solar energy systems including microinverter ICs and power conversion technologies.*

## **Solid State AI**

[www.solidstate.ai](http://www.solidstate.ai)

185 Spadina Ave., Toronto, ON

*AI-powered yield enhancement and predictive maintenance software for semiconductor fabrication; machine-learning models for fab process control.*

## **Sparq Systems**

[www.sparqsys.com](http://www.sparqsys.com)

901 Abernathy Road, Kingston, ON

*Develops micro-inverter semiconductor solutions for solar energy systems; power conversion ICs enabling panel-level energy optimization.*

## **Spectrum Control**

[www.spectrumcontrol.com](http://www.spectrumcontrol.com)

360 Terry Fox Dr, Kanata, ON

*Designs and manufactures RF, microwave, EMI filtering, and power-related electronic components; Kanata site is Spectrum Control brand.*

## **Square Peg Communications Inc.**

[www.squarepegcommunications.com](http://www.squarepegcommunications.com)

4017 Carling Avenue, Suite 200, Ottawa, ON

*Design services and R&D for telecom, automotive, and industrial sectors; RF and embedded electronics engineering services.*

## **StarIC**

[www.staric.ca](http://www.staric.ca)

18 King St E Suite 1400, Toronto, ON

*Develops high-speed datacom PHY IP and photonic IC design solutions for AI/data-centre interconnects.*

## **Starvoy Communications**

[www.starvoy.com](http://www.starvoy.com)

4017 Carling Ave., Suite 101, Ottawa, ON

*Develops satellite-based communication systems integrating advanced semiconductor technology for mobile and fixed connectivity.*

## **Stathera**

[www.stathera.com](http://www.stathera.com)

10 Washburn Way, Markham, ON

*Develops MEMS-based timing devices designed to replace quartz oscillators in electronic systems.*

## **STMicroelectronics**

[www.st.com](http://www.st.com)

300-1000 Innovation Dr, Mississauga, ON

*Produces microcontrollers, sensors, and power devices. Its technologies support automotive, industrial, and consumer electronics markets.*

## **Studio 1 Labs**

[www.studio1labs.com](http://www.studio1labs.com)

3600 Steeles Ave E, Markham, ON

*Develops sensor fabric and textile-integrated electronics for health monitoring applications; semiconductor-based wearable sensor systems.*

**Swiftlink Technologies****www.swiftlinktechs.com**

150 Terence Matthews Crescent. Ottawa, ON  
*Develops high performance millimeter wave System IC and antenna technologies designed to increase wireless capacity and simplify next generation connectivity across terrestrial and non terrestrial networks.*

**Synopsys****www.synopsys.com**

450 March Rd, Suite 401, Ottawa, ON  
*Provides EDA tools and semiconductor IP enabling companies to design, verify, and manufacture advanced ICs.*

**Syntronic R&D Canada****www.syntronic.com**

340 Terry Fox Dr, Ottawa, ON  
*Advanced electronics engineering design services across telecom, medtech, and industrial; FPGA, ASIC, and embedded systems development.*

**Taalas****www.taalas.com**

1 Valleybrook Dr Suite 500 North York, ON  
*AI chip company developing automated deep-learning model-to-silicon flow.*

**TechInsights****www.techinsights.com**

1891 Robertson Road, Suite 500, Ottawa, ON  
*Delivers deep analysis of semiconductor technologies through reverse engineering, IP analysis, and market intelligence for chip companies globally.*

**Technic Inc.****www.technic.com**

195 Riviera Drive. Markham, ON  
*Provides specialty electroplating chemicals and process solutions for semiconductor packaging, PCB manufacturing, and connector fabrication.*

**TechSols Inc.****www.techsols1.com**

2586 Carp Rd, Carp, ON  
*Custom engineering and manufacturing of industrial electronics, LED lighting systems, DC/DC converters, and electro-mechanical solutions for automotive, defence and industrial sectors.*

**TekStart****www.tekstart.com**

4145 North Service Rd, Suite 200, Burlington, ON  
*Provides engineering and product development support for embedded and electronic systems. Their services include prototyping, design, and system integration across industrial and technology sectors.*

**Teledyne DALSA****www.teledynedalsa.com**

605 McMurray Rd, Waterloo, ON  
*International leader in digital imaging, image sensors (CCD/CMOS), and MEMS foundry services.*

**Teledyne MEMS****www.teledynedalsa.com/semiconductor**

605 McMurray Road, Waterloo, ON  
*Develops MEMS for sensing, defence, and industrial applications; MEMS foundry services.*

**Telesat Corporation****www.telesat.com**

160 Elgin St, Ottawa, ON  
*Operates satellite communications infrastructure including geostationary and LEO (Lightspeed constellation) satellites; semiconductor-based satellite and ground hardware.*

**Tenstorrent****www.tenstorrent.com**

150 Ferrand Dr, Suite 901, North York, ON  
*Designs AI processors (Tensix core architecture) and RISC-V based computing for AI workloads. Founded 2016 in Toronto.*

**Testforce Systems****www.testforce.com**

50 McIntosh Dr, Markham, ON  
*Provides semiconductor test and measurement equipment and integration services. Their solutions support device validation, reliability testing, and production optimization.*

**Thales Canada****www.thalesgroup.com/en/americas/canada**

1 Chrysalis Way, Nepean, ON  
*Global high-tech leader providing defence, aerospace, digital identity and security solutions; Canadian operations include naval systems integration, optronics, cybersecurity and C4ISR.*

**The SIX Semiconductor****www.thesixsemi.com**

80 Tiverton Ct, Markham, ON  
*Develops high-speed datacom PHY IP for 100G/400G/800G optical interconnects; wholly-owned subsidiary of a larger semiconductor group.*

**ThinkRF****www.thinkrf.com**

390 March Rd, Ottawa, ON  
*Develops real-time spectrum analysis and monitoring solutions for wireless, defence, and regulatory compliance markets; FPGA/DSP-based hardware.*

**Tornado Spectral Systems****www.tornado-spectral.com**

5155 Spectrum Way, Unit 6, Mississauga, ON  
*Designs, manufactures, and sells Raman spectroscopy systems using patented HTVS technology for pharmaceutical, petrochemical, and biotech process analytics.*

**Transcat Canada****www.transcat.com**

4043 Carling Ave, Kanata, ON  
*Provides semiconductor test equipment rental, calibration, and compliance services for defence and industrial customers.*

**TriCim Corporation****www.tricim.com**

535 Legget Dr Suite 110, Ottawa, ON  
*Provides taping, baking, dry packing, and component handling services to electronics manufacturers; moisture-sensitive device management.*

**TSMC Design Technology Canada Inc.****www.tsmc.com**

1000 Innovation Dr, Ottawa, ON  
*World's leading semiconductor foundry; Ottawa presence supports Canadian customer engagement and fabless IC design community liaison.*

**TTM Technologies Toronto, Inc.****www.ttm.com**

8150 Sheppard Ave E, Toronto/Scarborough, ON  
*Toronto facility specializes in prototype, quick-turn, and mid-volume advanced PCB manufacturing including HDI and rigid-flex boards.*

**TUV SUD Canada****www.tuvsud.com**

1280 Teron Rd, Kanata, ON  
*Product safety, environmental, and electromagnetic compatibility (EMC) testing for semiconductor and defence electronics.*

**U****ULKASEMI****www.ulkasemi.com**

250 Consumers Rd Suite 200, North York, ON  
 CMOS IC design services for high-speed telecom, AI, and data-centre semiconductor customers.

**Untether AI****www.untether.ai**

661 University Ave Suite 1300, Toronto, ON  
 Develops at-memory AI inference chips (runAI, speedAI, tsunAI<sup>mi</sup>).

**VIAVI Solutions****www.viavisolutions.com**

61 Bill Leatham Dr, Ottawa, ON  
 Develops test and measurement equipment for fibre optics, wireless networks, and communications infrastructure.

**Vivid Machines****www.vivid-machines.com**

360 Dufferin St Unit 104, Toronto, ON  
 Develops computer vision and machine learning technology to improve yield and product quality in agricultural processing; semiconductor-based vision hardware.

**VueReal****www.vuereal.com**

440 Phillip St Suite 100, Waterloo, ON  
 Develops MicroLED display semiconductor technology and transfer printing processes for next-generation display and photonics applications.

**Westboro Photonics****wphotonics.com**

1505 Carling Ave Suite 301, Ottawa, ON  
 Designs, engineers, and manufactures imaging photometers and colorimeters for light measurement of displays, automotive lighting, and illumination. NVLAP-accredited calibration laboratory.

**Wind River Systems****www.windriver.com**

425 Legget Dr, Kanata, ON  
 Next-generation hardware architecture, cloud-native software, and edge-to-cloud DevOps platform for automotive and defence embedded systems.

**WL Photonics Inc.****www.wlphotonics.com**

108 Derbyshire St, Kanata, ON  
 Develops optical technologies for high-speed data transmission and photonic integration; fibre-optic components and modules.

**World Star Tech****www.worldstartech.com**

185 Konrad Cres, Markham, ON  
 Designs and manufactures laser diode modules, precision laser systems (375–1064 nm), beam profilers, and laser markers.

**Xanadu****www.xanadu.ai**

777 Bay St Suite 2902, Toronto, ON  
 Founded 2016 by Christian Weedbrook. Toronto-based photonic quantum computing company; builds room-temperature photonic quantum processors (Borealis, Aurora).

**V****W****X****Xilinx****www.amd.com**

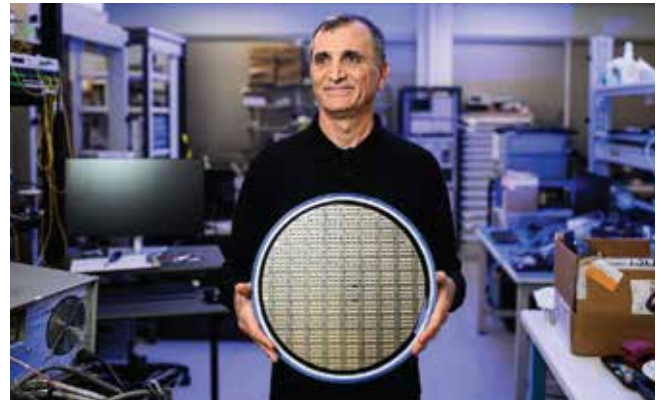
84 Hines Rd Suite 300, Ottawa, ON  
 FPGA-based semiconductor solutions for data centres, defence, and AI workloads; Ottawa office is part of AMD/Altera FPGA design team.

**Zenduit****www.zenduit.com**

2355 Skymark Ave 1st Floor Suite 100, Mississauga, ON  
 Develops IoT and fleet telematics solutions for asset tracking and fleet management; semiconductor-based GPS and cellular connectivity hardware.

**Zhone****www.zhone.com**

515 Legget Dr Suite 704, Ottawa, ON  
 Provides broadband networking and fibre-access solutions for service providers; Ottawa office heritage from Optelian optical networking.

**Z**

// Public investment in Ranovus has catalyzed real momentum in Kanata North's semiconductor ecosystem, showing what's possible when government and industry pull in the same direction. By supporting Canadian-owned world-class innovation at Ranovus, Canada will secure a strategic beachhead in next-generation photonics market for scaling AI infrastructure."

— Hamid Arabzadeh, CEO of Ranovus



Is your Ontario  
Semiconductor or  
HardTech Company  
not listed?

Scan the QR code  
or email us at  
[ovin@kanatanorthba.ca](mailto:ovin@kanatanorthba.ca)



Supported by:

