

# Photonics Integrated Circuits (PIC) SUMMIT



Directory of Canadian Participants

**2024**

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**Companies**

# Companies

Femtum

Website: [www.femtum.com](http://www.femtum.com)



## Description:

Femtum is a Quebec-based high-tech company that offers laser solutions to improve performances and yields of photonics integrated circuits (PICs) and semiconductor in general. These solutions include the cleaning, cutting and correction of semiconductors and PICs.

## Preferred Partners:

Femtum is seeking customers in the semiconductor industry, including PIC manufacturers, foundries, and design houses. The company is also looking to establish solution partnerships in testing and automation throughout the PIC fabrication value chain. Meeting with potential investors for Series A funding is also a key objective.

## Contact:

Simon Duval, Co-founder & CTO

[sduval@femtum.com](mailto:sduval@femtum.com)

+1-418-929-1885

# Companies

OSCP

Website: [www.onesiliconchipphotonics.com](http://www.onesiliconchipphotonics.com)



## Description:

OSCP designs and builds Inertial Measurement Units (IMUs) for autonomous vehicles. Using patented Photonic Integrated Circuits technology, OSCP replaces current bulky, power hungry, and expensive IMUs in the market with a more compact, reliable, lower power alternative that can be lower cost.

## Preferred Partners:

OSCP is looking for development partners who would be willing to participate in the consortium as partners. Companies with laser diode, phase modulator, or expertise with PIC packaging solutions would be ideal. Other partners interested in IMUs would also be of interest.

## Contact:

Kazem Zandi, CEO

[kazem.zandi@onesiliconchipphotonics.com](mailto:kazem.zandi@onesiliconchipphotonics.com)

+1-514-661-0866

Richard Williston, Director of Operations

[richard.williston@onesiliconchipphotonics.com](mailto:richard.williston@onesiliconchipphotonics.com)

+1-226-973-5538

# Companies



## Optiwave Systems

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

### **Description:**

Optiwave Systems, founded in 1994, provides simulation software for a variety of photonic systems, most prominently in the telecommunications space. More recently, they have developed electro-photonic co-simulation capabilities to facilitate the design of receivers for next-generation sensors.

### **Preferred Partners:**

Optiwave seeks collaborative R&D partnerships in the front-end foundry space to improve the design-simulation-fabrication cycle for integrated electro-photonic circuits. In addition, Optiwave seeks partners with expertise in the design of solid-state LiDaR and other coherent sensing technology.

### **Contact:**

Cem Bonfil, Product Manager Optoelectronics

[cem.bonfil@optiwave.com](mailto:cem.bonfil@optiwave.com)

+1-613-884-0236

**Government,  
Industry  
Partners &  
Research  
Institutions**

# Government, Industry Partners & Research Institutions

C2MI

Website: [www.c2mi.ca](http://www.c2mi.ca)



## **Description:**

C2MI is the largest innovation centre for electronic systems across Canada wholly dedicated to the rapid commercialization of microelectronics products.

Our fields of expertise are grouped into 4 main sectors: The manufacturing of MEMS and MOEMS, the advanced packaging of semiconductors and opto-electronics assembly, the printable electronic, and the analytical services.

C2MI enables both small and large companies to finalize the development of their concepts, from prototyping to market launch, thus reducing the gap between academic research and industrial production.

C2MI has been providing its services to clients for over 12 years.

## **Preferred Partners:**

Potential buyers or customers.

## **Contact:**

Annie Dallaire, Vice President Business Development

[Annie.Dallaire@c2mi.ca](mailto:Annie.Dallaire@c2mi.ca)

+1-450-534-8000



## Canadian Photonics Fabrication Centre

Website: <https://canada.ca/nrc-cpfc>



National Research  
Council Canada

Conseil national de  
recherches Canada

### **Description:**

The Canadian Photonics Fabrication Centre (CPFC) is a III-V semiconductor wafer foundry that provides high-volume commercial foundry services in a pure-play model.

Over the past 20 years, the CPFC's foundry services have enabled over a hundred million devices covering a range of applications, including long-haul telecommunications, datacommunications, LiDAR, and more. We have a demonstrated track record for epitaxial growth and processing for InP and GaAs wafers.

More recent work has demonstrated unparalleled processing quality for GaN-on-SiC and GaN-on-Sapphire wafers. The CPFC works with clients covering TRL 4 through TRL 9, with most activities occurring at high volumes and high TRLs.

### **Preferred Partners:**

Resellers and distributors, potential buyers or customers.

### **Contact:**

Daniel Hutama, III-V Business development Officer

[Daniel.Hutama@nrc-cnrc.gc.ca](mailto:Daniel.Hutama@nrc-cnrc.gc.ca)

+1-343-576-8568

## Canada's Semiconductor Council

Website: <https://www.canadasemiconductorcouncil.com>



### **Description:**

We are a national semiconductor industry association (SIA) dedicated to accelerating the growth and development of Canada's semiconductor sector. Our interest is in learning experiences and expertise in building successful semiconductor hubs, clusters and ecosystems.

### **Preferred Partners:**

Resellers and distributors, potential buyers or customers, government agencies and regulators, investors.

### **Contact:**

Paul Slaby, Managing director  
[pslaby@canadasemiconductorcouncil.com](mailto:pslaby@canadasemiconductorcouncil.com)  
+1-613-863-1306

# Government, Industry Partners & Research Institutions

CMC Microsystems

Website: <https://www.cmc.ca>



## **Description:**

Founded in 1984, CMC Microsystems is a not-for-profit organization that accelerates research and innovation in advanced technologies including microelectronics, photonics, microelectromechanical systems (MEMS), Internet of Things (IoT), Artificial Intelligence (AI), and quantum software and hardware.

CMC enables research, development, and the training of highly qualified personnel (HQP) for an international network of over 10,000 researchers in 22 countries.

CMC has a large internal photonics team to support CAD tools, fabrication access and design assistance for over 150 photonics designs each year.

## **Contact:**

Gordon Harling, President and CEO

[harling@cmc.ca](mailto:harling@cmc.ca)

+1-613-530-4666

# Government, Industry Partners & Research Institutions

Optech

Website: [www.optech.org](http://www.optech.org)

OPT<sup>E</sup>CH

## **Description:**

Optech is a non-profit organization specializing in the experimental development of products and processes based on optics-photonics.

We support companies in all sectors in their innovation initiatives, integrating optics and photonics technologies at every stage: feasibility studies, design, prototyping, testing and validation under real-life conditions, right through to small-scale production.

## **Preferred Partners:**

Resellers and distributors, accelerators and incubators.

## **Contact:**

Patrick Orsini, Development and innovation manager / transportation and communications sectors

[Patrick.Orsini@optech.org](mailto:Patrick.Orsini@optech.org)

+1-514-364-3325 ext. 6245

# Government, Industry Partners & Research Institutions

## Trade Commissioner Service, Global Affairs Canada

Website: [www.tradecommissioner.gc.ca](http://www.tradecommissioner.gc.ca)



### **Description:**

The Canadian Trade Commissioner Service (TCS) helps companies navigate the complexities of international markets and make better business decisions. The TCS is on the ground in more than 160 cities worldwide. We gain market intelligence, uncover opportunities for Canadian companies and help reduce business costs and risks. The TCS is a free service of the Government of Canada, helping companies to prepare for international markets, assess market potential, find qualified contacts and resolve business problems.

Through its network of Trade Commissioners, the TCS can help you find:

- Advice on the Canadian STI landscape
- The right research and development (R&D) partners in Canada
- Funding opportunities for collaborative R&D projects
- Guidance on maximizing CETA benefits for your engagement with The Netherlands & the EU

### **Contact:**

Fanny Bousquet, First Secretary | Première Secrétaire (Science, Tech, Innovation)

[Fanny.Bousquet@international.gc.ca](mailto:Fanny.Bousquet@international.gc.ca)

+31-6-13935132

