

## Professional Electronics Design

Microlynx Systems Ltd is recognized as one of Western Canada's leading electronics product design services companies.

With **over 30 years in the business**, Microlynx has helped hundreds of clients **across Canada and the United States** develop innovative products such as wireless modems, low-power hand-held devices, encryption / authentication devices, protocol converters, and industrial control systems.



**Microlynx offers a highly skilled and capable design team** that can be called upon on an as-needed basis, saving you the need for having to ramp-up and downsize as projects come and go. By contracting us for your project, you gain instant access to our design experience and capabilities:

- Product specification
- System architecture and high level design
- Radio Frequency, analog, and digital circuit design
- Software development
- FPGA development, VHDL coding and simulation
- Firmware and embedded system development
- PCB assembly and prototype testing
- Test jigs and test fixtures development
- Schematic capture and PCB layout services

## Service Offerings

- **Electronics Product Development:** from concept through to production
- **In-Circuit Test Fixtures:** reduce test time and improve product quality with bed-of-nails type test fixtures
- **Design Consulting Services:** technology assessments and reviews; perform design reviews on existing products; assist with troubleshooting design problems
- **Low Volume and Prototype Assembly:** Rapid turn-around hand assembly of single- and double-sided PCBs
- **Obsolescence Management:** assistance with conversions driven by lead-free requirements or part obsolescence

## Why Outsource?

Here are some reasons why **you should consider Microlynx** for your next project:

- **Experience** – our team of engineers, technologists, and technicians have completed well over a thousand projects.
- **Creativity** – We often find unique solutions to give you an advantage over your competition.
- **Quality** – We have a proven track record of designing reliable products that pass regulatory testing first time.
- **Time to market** – we stand ready to start your project, and our design processes allow us to complete your projects quickly.
- **Flexible business model** – fixed-price, time-and-materials or first-article-plus-per-unit pricing.
- **Supply chain relationships** – fast access to samples, inventory, design tools, and field applications support.

## Affiliations

Microlynx is proud to be affiliated with the following organizations:

### *Cymbet*

Cymbet is the leader in solid state energy storage and energy harvesting power management solutions, providing eco-friendly solid state battery devices for many applications.



### *Texas Instruments*

Texas Instruments has an incredibly diverse product line, including the versatile CC1100 and CC2500 wireless microcontrollers which include an integrated RF transceiver, making them suitable for a wide variety of wireless applications.



### *Western Canadian Defence Industries Association*

The Western Canadian Defence Industries Association's (WCDIA) objective is to provide a means of mutual support to Tier 2 and smaller Western Canadian companies; to help develop their ability to serve the procurement needs of the Canadian defence industry.



### *Engenuics*

MPG is an extracurricular embedded systems program offered by Engenuics at universities across Canada and is now in its 13<sup>th</sup> consecutive year at the University of Calgary.



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## Markets Served

While we will help out in all industries, Microlynx' skills are especially relevant to applications where reliability is paramount and extreme conditions can be encountered. Some of the industries in which we have experience include:

### **Security and Defense**

*Wireless Digital Video Transmitter and Receiver; Integrated Licensed-UHF Wireless Alarm Panel; Wireless Vehicle Anti-Theft System; Perimeter Intrusion Detection System.*

Microlynx is registered with the Controlled Goods Program.

### **Avionics**

*Supplementary Aircraft Data Logger; Portable Aircraft Data Logger for General Aviation*

### **Oil and Gas**

*Down-Hole Measurement System; Exploration Gas Analyzer; Seismic Wireless Communications System; Pipeline Inspection tools (PIG); Wireless Torque-Turn-Tension Measurement and Logging System; Wireless Vibration and Pressure Analyzer*

Expertise with Zone 0-2 and Division 1-2 explosive atmospheres

### **Medical and Life Safety**

*Portable Light Therapy Device; Wireless Peripheral Neuropathy Detection System; 3G Cell-Enabled Pill Dispenser and Monitor; Laser-Based H<sub>2</sub>S Sensor; Portable Gas Detector*

### **Automotive, Vehicle Control and Fleet Management**

*Vehicle Battery and Impact Monitor; Wireless RV Lighting Control; Vehicle-Mount Computer Port Replicator*

## Call Us Now To Discuss Your Project

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