



## Embedded Electronics Systems Developer

**Posted by:** MWDPlanet and Lumen Corp

**Posting date:** 30-Jun-2025      **Closing date:** 20-Jul-2025

**Education:** Minimum of a Bachelor's degree or diploma in Electronics (Electrical) Engineering

**Language:** English

**Job location:** Airdrie

**Salary:** \$65000 Per Year

**Years of Experience:** 3 years

**Vacancy:** 1

**Job Type:** Full Time

**Job id:** CAJ6759950

Expired

### Job description:

Required Education & Experience:

? Minimum of a Bachelor's degree or diploma in Electronics (Electrical) Engineering or a related discipline,

or an equivalent combination of education and experience.

? Experience in embedded electronics/systems research and development, including hardware (HW),

firmware (FW), and software (SW).

? Expertise in analog electronics, including low-noise operational amplifiers (OP-amps), analog filters, and

programmable gain amplifiers (PGAs).

? Experience with Class-D amplifiers and digital-to-analog converters (DACs).

? Knowledge of ground noise mitigation, filtration techniques, and safety barriers.

? Proficiency in designing power inverters, pulse-width modulation (PWM) systems, and digital control

mechanisms.

? Experience with high-resolution analog-to-digital converters (ADCs).

? Understanding of digital filtration techniques.

? Familiarity with digital signal processing (DSP), including phase-based BPSK/QPSK modulation and demodulation.

? Knowledge of time-based encoding systems.

? Expertise in signal compression and channel multiplexing.

? Implementation of Kalman filters and signal processing techniques.

? Experience in designing and building brushless DC (BLDC) motors and BLDC motor drivers.

? Familiarity with telemetry systems, including gyroscopes, magnetometers, and accelerometers, for

control and digital processing.

? Proficiency in microcontrollers and firmware development for embedded systems.

? Programming experience in C, C++ (Qt, MFC), C#, and Python.

? Knowledge of physical and digital communication protocols: CAN bus, RS232, RS485, RS422, SPI, I2C, 1-

Wire, Ethernet, and 802.11.

? Experience with high-temperature and high-vibration hardware design and components.

? Proficiency in Altium-based PCB board design.

? Experience with hardware, firmware, and software revision control tools.

? Ability to prepare project documentation for both internal and external clients.

? Experience working in the field.

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Job Description -Embedded ELECTRONICS SYSTEMS DEVELOPER

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**Duties and Responsibilities:**

- ? Design and develop analog and digital electronics hardware.
  - ? Develop embedded firmware and hardware for microcontroller-based products.
  - ? Support project initiatives by collaborating with the design team to ensure development milestones and deadlines are met.
  - ? Define and implement high-performance software by leveraging a strong understanding of embedded hardware design.
  - ? Evaluate product non-conformances and recommend design modifications.
  - ? Conduct evaluations, testing, and design reviews to ensure compliance with requirements and specifications.
  - ? Maintain accurate documentation throughout the development process to comply with company and regulatory standards.
  - ? Perform equipment tests in the field with clients, including working under high-stress conditions.
  - ? Handle equipment weighing up to 80 lbs.
  - ? Work with various instrumentation tools, from soldering equipment to pipe wrenches.
- Must be eligible to work in Canada
- Job Types: Full-time, Permanent

**To apply for this job vacancy, please send your resume along with a cover letter and a reference letter from your previous employer to the following email: [mariya@mwdplanet.ca](mailto:mariya@mwdplanet.ca)**

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