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 or a related discipline, or an equivalent combination of education and experience.

Language: English

Job location: Airdrie

Salary: $65000 Per Year

Years of Experience: 3 years

Vacancy: 1

Job Type: Full Time   **Job id**: CAJ1535375

Job description:

207 Stage Coach Lane
Rocky View County
Alberta, T4A 0P1
hr@mwdplanet.ca
©MWDPlanet and Lumen Corporation
Job Description -Embedded ELECTRONICS
SYSTEMS DEVELOPER

Job title Embedded Electronics Systems Developer

Reports to Project manager/Lead developer

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.

2026-04-10, 03:48:27 AM

? 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.

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

To apply for this job vacancy, please send your resume along with a cover letter and a refrence letter from your previous employer to the following email: mariya@mwdplanet.ca

Posted on canadianjobportal.com