



Jr. Embedded Software Engineer

Moncton, New Brunswick

Do you want to work for a dynamic and rapidly growing company that is an industry leader in our field? Greystone Energy Systems Inc. is dedicated to developing high quality and innovative solutions for its customers with unsurpassed customer service.

The Opportunity

Greystone Energy Systems is seeking an **Jr. Embedded Software Engineer** to join our Engineering team. The ideal candidate will be responsible for embedded software development on various microcontroller platforms including ARM and Microchip PIC.

This position will be responsible for all phases of software development targeting embedded systems, including design, coding, integration, and documentation of major portions of software projects.

Principle Duties & Responsibilities

- Design and develop embedded applications in C/C++ for ARM and Microchip PIC controllers.
- Debug hardware using lab equipment (multimeters, oscilloscopes, etc...).
- Create and maintain detailed design documentation.
- Contribute to product definition and system architecture.

Management

- This position reports to the Engineering Manager.

Education, Training & Experience

- Degree in Electrical Engineering (P.Eng, BSEE, etc), technical electronics diploma or equivalent experience.

Skills and Competency Requirements

- Proficient in C/C++ programming.
- Experience in implementing firmware/software elements on microcontrollers, in both bare-metal and RTOS-based environments.
- Good understanding of fundamentals of digital and analog circuit design.
- Understanding of communication protocols: I2C, UART, SPI, TCP/IP, USB.
- Experience in designing Wireless communication links including Bluetooth, Wi-Fi or LoRa.
- Understanding of memory mapping and interface, concurrency, and hardware- software interface.



- Hands-on experience with low-level/embedded TCP/IP stacks.
- Ability to organize, plan and prioritize work.
- Ability to observe, receive and otherwise obtain information from all relevant sources.
- Possess proficient communication skills.
- Creative and Innovative.

Applications should be forwarded to mattatall.j@greystoneenergy.com