



Embedded Software Engineer/Developer

Engineering / Product Development/ Software

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 **Embedded Software Engineer/Developer** 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 embedded software development targeting embedded systems, including design, coding, integration, and documentation of embedded software projects.

At Greystone Energy Systems, you will work Monday to Friday, day shift. We are closed weekends and have a casual dress code. We offer a comprehensive benefit package, including Health, Dental, Vision Care, Para-medical, Virtual Doctor Care, EAFP for you and your family. Greystone Energy Systems will help you save for your future with a group RRSP plan from day one.

Principle Duties & Responsibilities

- Design and develop embedded applications in C/C++ for ARM and Microchip PIC controllers
- Embedded code testing and debugging of system software
- Analyze and enhance efficiency, stability, and scalability of system resources
- Contribute to product definition and system architecture for a scalable and robust embedded software system
- Create and maintain detailed design documentation
- Support software QA and optimize I/O performance
- Provide postproduction support
- Assess third party and open-source software
- Work with the cross-functional design team in understanding requirements and limitations
- Confer with engineers, customers, and others to discuss existing or potential engineering projects

Education, Training & Experience

- Minimum 5 years' working experience in embedded software engineering
- BS degree in Computer Science or Engineering
- Experience in hands-on development and troubleshooting of embedded software system environments
- Proven experience in embedded systems design with real-time operating systems
- Excellent knowledge of OS coding techniques, IP protocols, interfaces, and hardware subsystems
- Experience working with ARM processors is preferred



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