

Embedded Software Engineer

NOC Group: Software engineers and designers (2173)

Salary: \$38.50 - \$41.50 per hour

Job Type: Full-Time, Permanent

Start Date of Employment (Approx.): As soon as possible

Job Location(s): Burnaby, British Columbia

Positions Available: 1

Company Description

Based in Burnaby, Canada, Rigid Robotics Inc. (rigidrobotics.com) is comprised of experts in open-pit mining technology, industrial embedded systems, and enterprise software. The business is engaged in producing innovative solutions to customers' problems including the development of an enterprise mining IoT device, for precision mining and automation. We work collaboratively with customers to solve their productivity, safety, and cost challenges. To contribute to our growth and leading position in its field, RIGIDROBOTICS is currently looking for a Senior Embedded System Engineer with deep knowledge of embedded systems and design software and excellent problem-solving skills. S/He will be part of a team designing, developing, maintaining products. As a result, knowledge and experience of embedded system production is highly required.

Responsibilities

- Assist in the design, development, integration and implementation of new devices
- Responsible for the firmware development from prototyping to full production
- Work closely with cross-functional teams to ensure system designs are cohesive, on-time and on-budget
- Design, document and implement new architectures, frameworks and toolchains
- Debug complex kernel driver and system issues involving multiple embedded execution environments
- Write correct and efficient C/C++ code for various embedded platforms
- Design and implement efficient communication protocol between different hardware modules
- Troubleshoot hardware and software issues and work with hardware, software and system engineers to identify the root cause
- Develop scripts, test utilities, and other development aids to improve design efficiency
- Support and mentor teammates and other functional groups

Qualifications and Work Experience Required

- Minimum Master's Degree in Computer Engineering, Computer Systems Engineering, Electrical Engineering or Information Technology.
- 5 years of experience in the field of embedded systems design and development.
- Knowledge of digital hardware (SoC, x86, ARM microprocessor and its peripherals).
- Experience and knowledge of Kernel Modification and Device Drivers development.
- Experience and knowledge of Altium Designer and Atmel Studio as the primary design and development environment.
- Experience with developing complex C/C++ applications is required. Bash or Python also preferred.
- Experience with complex algorithms and data structures.
- Experience with optimizing performance of embedded software.
- Experience with modern ARM embedded processors, Cortex-M7 and Cortex-A8 preferred.

- Experience with standard interfaces e.g. Ethernet, PCIe, SPI, I2C, GPIO, CAN preferred.
- Knowledge and Experience of Linux system configuration and startup
- Excellent organizational and communications skill.

Personal Skills and Qualities

- Decision-making skills
- Operations Analysis
- Good interpersonal organizational skills
- Client focus
- Critical thinking
- Accurate
- Team player

Work Conditions and Physical Capabilities

- Fast-paced environment
- Attention to detail
- Tight deadlines

Languages

- English

How to Apply

- Email: jobs@rigidrobotics.com