



Job Title: Embedded Systems Developer
Department: Development
Reports To: Development Manager
FLSA Status: Exempt
Prepared By: Applications Development Supervisor
Prepared Date: April 11, 2017

Summary

Job responsibilities include development and maintenance of software, firmware, and profiles on various embedded devices. Role will work closely with product engineers, web developers, mobile developers, application developers, and any outside resources needed to define requirements create documentation, and deliver embedded software packages to facilitate product testing and release. Projects will cover a broad array of topics including low level microcontroller firmware, microcontroller software, wireless communication profiles, software API's, and research into new and emerging hardware platforms.

Essential Duties and Responsibilities

- Create, maintain, and support embedded systems using debuggers, emulators, simulators, and logic analyzers
- Maintain and support existing embedded systems and hardware
- Create any supporting release notes, system specifications, and design documentation needed
- Create and execute unit and functional tests
- Research, source, and test new and emerging hardware components (e.g., microcontrollers, WiFi controllers, Bluetooth controllers)
- Work with product engineers to integrate and test hardware components and embedded software
- Self-motivated work style with the ability to work on several smaller projects concurrently
- Able to work in an Agile/Scrum environment
- Maintain confidentiality with regard to the information being processed, stored or accessed
- Acts with limited guidance to translate business and technical requirements into well-engineered and tested software solutions
- Maintains technical ownership of projects, acts as liaison to other technical teams, and provides troubleshooting and support as required
- Solid understanding of business fundamentals and the role of Development within the organization

Qualifications

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/or Experience

Bachelor's Degree in Computer Science or related field; or equivalent combination of education and work experience.

Technical Skills and competencies

- Experience programming with C or C++, preferably on embedded systems
- Experience with various interfaces (e.g., I2C, CAN, SPI, UART, TCP/IP, PCIe, PCI, Bluetooth, WiFi)
- Experience in algorithm implementation and algorithm code structuring
- An understanding of ARM Cortex M microcontroller architecture including compiler, debugger and OS tools is a plus
- Experience in full Software Development Life Cycle (e.g., analysis, design, development, testing, documentation and deployment)
- Familiarity with scrum/agile led software development
- Ability to communicate effectively both orally and in writing with both technical and non-technical employees and customers
- Action oriented, self-motivated, good listener, adaptable to change
- Enjoy being part of a team, customer focused, earn trust of team mates
- Work in office environment. In addition, frequently lift and/or move up to 25 pounds, and occasionally lift and/or move up to 50 pounds while using methods compliant with company lifting policy.
- Dedicated to company and personal core values.
- Practice safety and adhere to all company safety policies.