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**Title: Embedded Firmware Software Developer**

**About SES:**

SES is a rapidly growing IoT business headquartered in Northbrook, IL with product development located in Charleston, SC. SES provides innovative best-in-class security and access control solutions for large enterprises. Our system comprises robust smart locking devices, mobile and cloud apps, which utilize latest Bluetooth Low Energy (BLE) technology, advanced encryption algorithms, and secure cloud technologies. The leadership team is comprised of seasoned technology executives with decades of industry experience. SES is expanding the customer base from telecommunications industry to many other adjacent markets.

**Role**

We are seeking an energetic and committed Embedded Firmware Developer to join our dynamic product development team. The primary focus is development of access control units, electronic locking devices, and other peripherals. This position will be responsible for collaboration, design, implementation, documentation, and testing. This position reports to the Senior Embedded Firmware Developer.

**Key Responsibilities**

- Design and assist in developing firmware for new and existing access control product line.
- Maintain, merge and deploy firmware applications.
- Firmware documentation and process flowcharts.
- Assess, utilize, maintain and update development tools and frameworks.
- Interact with product development engineering team and mobile/cloud/enterprise software development team.
- Assist with creating automated test suites for new and existing features with proper testing tools.

**Qualifications**

- Experience in firmware development and design on embedded target platforms using C/C++ language.
- Experience with an RTOS (real-time operating system)
- Basic understanding of electronic circuits, ability to read schematics, and use electronic test and measurement equipment.
- Troubleshoot system, performance and functional issues with firmware.
- Perform design and code reviews and recommend improvements.
- Collaborate with other engineers on technical and design issues.
- Experience with Agile development processes
- Experience with git, GitHub and JIRA
- Strict attention to detail, highly organized and efficient, self-managed
- Strong written and verbal communication skills

**Preferred**

- Bachelor's degree in Computer/Electrical Engineering or related fields
- Experience with ST Microcontrollers
- Experience with Bluetooth Low Energy devices.
- Experience with communication protocols like TCP/IP, Bluetooth Low Energy.
- Experience with serial wire protocols like Ethernet, CAN, Modbus and RS-485
- Experience with security algorithms.
- Experience with NodeJS, RDBMS, RESTful API's and MVC frameworks.
- Experience with AWS (Serverless and CI/CD tools a big plus)
- Experience with Angular, Vue.js and/or React.