Rich Products & Solutions Pvt. Ltd.
Information Technology

Position / Band	Embedded Firmware Engineer Band 2
Summarized Accountability:	The Embedded Firmware Engineer is an important member of our F'real India Equipment and Technology Team and plays an important role in developing, testing, validating and implementing firmware and software solutions for our existing and future equipment. This person is capable of the development of solutions across a wide range of electronics, processors, sensors, motors, built-in diagnostics and remote cellular monitoring capabilities. This position is located in our Pune Office.
Reports To:	
Key Responsibilities:	•Develop firmware for microcontrollers, using C, C++, assembly and other programming languages as needed. •Work on design detailed plans to ensure firmware is delivered on time and on quality. •Create technical documentation and protocols for firmware design, implementation and operation. •Debug, troubleshoot system level problems and maintain existing firmware •Analyze, program, troubleshoot, and document the hardware and firmware of embedded electrical systems with an emphasis on motion control and digital and analog controls (PID) •Participate in hardware and firmware design reviews •Test and validate firmware on evaluation, prototype and production hardware platforms. •Participate in internal research and development of new technologies, and products. •Work with Oscilloscopes, Logic analyzers, Signal generators, etc. •Work closely with Electrical Engineers, Quality Engineers and Mechanical Engineers creating custom solutions and bringing up new and innovative hardware designs.
Direction of Others:	▪ N/A
Experience & Education:	•BS in Computer Science, Electrical Engineering or related Engineering degree

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	• Extensive hands on experience in embedded electrical systems design and test •Proficiency with Microchip PIC microcontrollers •Proficiency with C/C++, assembly, compilers and debuggers •Experience with collaborative source code control environments such as GitHub and Jira •Electronics troubleshooting skills with ability to use oscilloscopes, signal generators, logic analyzers, and other lab equipment •Positive and fun outlook…we're in the milkshake business after all! •Some domestic and international travel may be required
IS Technical Discipline & Key Working Relationships:	• **What are the typical decisions which are within this position's authority?** - Validation of code and system enhancements. Documentation for all changes in standardized format and under change control. - Recommendations/decisions on direction after technical analysis of request - Provide direction and support to other system team members - Recommendation for architecture or chip technology directions - Code debugging processes and tools required **What are the typical decisions which this position must refer for approval?** - Decisions related to product requirements or firmware feature list - Input and recommendations only on legally binding agreements. - Input and recommendations only on capital projects and significant expenses outside of approved budget
Scope Indicators:	- Development of code, testing and releases per schedule - KPI of individual project progress and schedule - Quality and validation of releases (As measured by error/downtime data)
Travel Requirements:	▪ lift up to 50 lbs occasionally. ▪ Ability to facilitate and participate in meetings with global partners during non-standard work hours from time to time. ▪ Travel (10% to 15%)
Additional Comments	▪