Lead Electronics Hardware Engineer

Bravo LT needs you to be a part of our highly motivated group of technology experts. We share a passion for technology and the community we serve, and we are committed to building long-lasting, productive relationships. We focus on giving back to the community, positively impacting society, and providing quality solutions that work. We believe in autonomy, mastery and purpose and in trusting people to do the right thing - and we think Bravo LT is a pretty great place to be a part of.

This Lead Embedded Hardware Engineer is responsible for leading the development of critical technical aspects of multiple projects and specific product systems and components. As a part of their project responsibilities, the Lead Engineer will work with and provide direction to other engineers and designers in order to meet key project and development milestones. In this role you will manage product and development for hardware functions in engineering activities carried out by technical staff to ensure that the requirements are met for the assigned projects. This person will also be a critical link in technical communications both within product development and cross functional groups and with outside suppliers to execute the technical aspects of projects.

Responsibilities

- With some oversight, create new product concepts and design that can be realized through hardware technologies and prove out feasibility of innovative functions and features that contribute to key product performance requirements.
- Lead the resolution of and maintain responsibility for technical design and issues found on all assigned projects by providing solid engineering analysis, problem solving, communication, and directing technical activities as necessary to ensure project success.
- Establish and maintain clear lines of communication with technical teams located at or near manufacturing sites throughout the project. This includes both internal and supplier-based associates depending on location.
- Prepare and present technical information as required to functions outside of the product development organization, including management, on projects or issues that may affect business decisions.
- Recommend and participate in the creation and improvement of test plans, methods and equipment as needed for assigned projects.
- Contribute to the analysis of test data and test results, especially for critical to quality functions to ensure product integrity and performance through close collaboration with the test engineer and the test lab.
- Coordinate agency product approval with the project Compliance Engineer by providing timely and complete design and specification information, adherence to agency design standards, and supply of proper samples for testing.
- Provide accurate and complete Technical Deliverables during product development and review Technical Deliverables from other technical functions as required for GPD project execution.
- Communicate and coordinate with core project team members (Project Management, Marketing, Operations/Purchasing, and Consumer Design) to ensure technical milestones and deliverables are aligned with commercial goals and deliverables of the project.
- Coordinate with the Quality Engineer to ensure the execution of product Quality Plans on full devices and the most critical components or assemblies to ensure specifications are maintained during production.
- Coach and mentor less experienced engineers, designers, and supervise co-ops (as assigned).
- Provide information to prepare and verify technical content of patents and associated legal documentation as requested for new inventions.

Basic Qualifications

- Degree minimum: Bachelor's degree in EE or CE (Master's preferred)
- A broad understanding of embedded systems is needed to be successful, including but not limited to: microprocessors, microcontrollers, detection systems, embedded software architecture, circuit design, controls theory, simulation, power supplies, motors and batteries.
- Experience level: 7+ or more years in Embedded Hardware Development of similar products
- Component selection, PCBA layout, design analysis, and hardware troubleshooting
- Strength in engineering fundamentals and technical problem solving
- Work on multiple new product development projects simultaneously
- Experience in test development and analysis of test results

Preferred Qualifications

- Knowledge and understanding of microprocessors, microcontrollers, detection systems, embedded software architecture, circuit design, controls theory, simulation-and-modeling, and/or connected devices software
- Electronics Design Experience: Basic design of High Voltage (120VAC and 220VAC) Input Power Supplies, low voltage (< 12 VDC) analog input design, 3V3 and 5VDC logic design. Experience with EMF and ESD design mitigation techniques. Experience with Altium PCBA design tools.
- Embedded System Experience: Understanding of microcontroller based PCBA and firmware design, distributed systems, safety critical systems, and the definition of communication and power interfaces.
- Battery Systems: Experience with lithium-ion battery packs and charging systems. Machine Control Technologies: Experience in developing embedded systems to drive loads such as motors, pumps, and fans. Experience in developing sensor-based product features with infrared, ultrasonic, capacitive, or RF sensing technologies.
- User Interface Technologies: Experience in incorporating electronics to support user interfaces including technologies such as LCD display, LED lighting, capacitive touch, and audio.
- Systems Analysis: Familiarity with trade studies in system design based on constrained resources. Experience in system performance simulation using tools and languages like SPICE, Python, and Matlab.

To apply for this opportunity, please visit the Bravo LT Career Opportunities webpage at:

http://bravoLT.com/careers/