New Product Development Senior Electronic Designer

Product Development/Engineering/Manufacturing

Moncton, New Brunswick

Objectives

Technical & Design Delivery

- Lead the design, development, and validation of electronic circuits, PCBs, and embedded systems to meet performance, cost, and reliability requirements
- Ensure compliance with industry standards, safety certifications, and regulatory requirements (e.g., FCC, CE, UL, ISO)
- Drive continuous improvement in design methodologies, simulation practices, and testing strategies

Innovation & Problem Solving

- Identify and implement innovative electronic solutions to enhance product performance and competitiveness
- Apply advanced design techniques (e.g., signal integrity, power optimization, EMC mitigation) to solve complex engineering challenges
- Scout and evaluate emerging technologies for integration into future products

Project Execution & Quality

- Deliver design outputs on schedule and within budget while maintaining high quality and reliability
- Conduct thorough design reviews, FMEA, and risk assessments to ensure robust product development
- Support root cause analysis and implement corrective actions for field or manufacturing issues.

Collaboration & Leadership

- Mentor other engineers and guide cross-functional design teams in best practices.
- Collaborate with mechanical, software, and manufacturing teams to ensure seamless product integration
- Provide technical leadership in customer/supplier meetings and internal stakeholder discussions

Documentation & Knowledge Sharing

- Through the use of a Product Life Cycle Management Application maintain clear, complete documentation of designs, test results, and revisions for traceability
- Contribute to design standards, guidelines, and company knowledge base to strengthen engineering practices

Greystone Energy Systems, Inc.
150 English Drive
Moncton, NB, CA. E1E 4G7

+1 506 777 3444
Mattatall.j@greystoneenergy.com
www.greystoneenergy.com

GREYSTONE
ENERGY SYSTEMS INC

Principle Duties & Responsibilities

- **Electronic Design & Development including** Design simulations, analog, digital, and mixed-signal circuits developments, PCB schematics, and layouts, and cross-functional design coordination, while ensuring compliance with design rules, best practices, certifications, and product performance requirements
- Design Life Cycle Management relevant to Electronic Design's within the PLM (Product Life Cycle Management) for all changes (Fit, Form, & Functions/Non-Fit, Form, and Function).
- electronic components qualification to meet performance, reliability, and lifecycle requirements.
- Electronic Hardware design in accordance with the agreed project schedule, cost, quality, functional requirements, and customer requirements
- Design documentation for assigned projects including the following:
    (1) Schematics and PCB layout (Altium Designer)
    (2) PCB assembly drawings, models and parts lists
    (3) Design verification and test results
    (4) Regulatory compliance
- Initiate and/or provide design input to Engineering Change Orders (EC's) to release new designs, manage changes/enhancements to existing designs, improve quality and manufacturability, reduce assembly time or material costs
- Participate, coordinate and lead design reviews with the cross-functional design team, sales, and customers, including formal cross functional FMEA's
- Provide support to manufacturing teams as required to troubleshoot technical issues
- Confer with engineers, customers, and others to discuss existing or potential engineering projects
- Work with Mechanical Design and Process Design ensuring accurate 3D models and 2D drawings for new product introductions
- Contributing to continual process improvement within the design team

Education, Training & Experience

- Degree in Electrical Engineering, technical electronics diploma or equivalent experience, specializing in electronic PCBA Design
- Minimum 10 years experience in electronic design for manufacturing specializing in printed circuit board (PCB) design in electro-mechanical products
- Experience in the design of battery operated or low power devices, including wireless communication or IoT would be considered an asset
- Experience working with ARM processors is preferred
- Knowable of Automated Test Equipment Design and interfacing product with test fixtures
- Knowable of LabView would be considered an asset
- Knowledge/experience of HVAC systems and components would be a strong asset
- Experience with embedded firmware design would be considered an asset

Skills and Competency Requirements

- Advanced knowledge of electrical components and electronic circuit design
- Proficient with Microsoft Office programs (Word, Excel).
- Advanced knowledge of PCB layout software – Altium Designer would be considered an asset
- Knowledge working with Product Life Cycle Management Applications
- Strong problem-solving ability
- Keeping up-to-date technically and applying new technology to projects as required
- Ability to organize, plan and prioritize work
- Ability to observe, receive and otherwise obtain information from all relevant sources

At Greystone Energy Systems, we believe that diversity drives business success. We are dedicated to fostering an inclusive workplace that celebrates differences and promotes equity. We welcome applications from people of all races, ethnicities, genders, ages, religions, abilities, and sexual orientations. We strongly encourage applications from women, minorities, and individuals with disabilities.

Join us in building a diverse and inclusive team!

Only those who will be considered for the next step of the application process will be contacted.

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