



1590 Reed Road
Pennington, NJ 08534 USA
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POSITION DESCRIPTION

Job Title: Electrical Engineer

Reports To: Vice President, Engineering

The Electrical Engineer is a motivated, creative experienced engineer with a focus on Developing, designing and testing power management and conversion systems for ocean wave applications. He/she drives a systems view of problem solving while executing detailed engineering activities in their field of expertise. Working together with peers in the same discipline and/or other engineering fields, managers, program managers.

Responsibilities include:

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- a. Create, update and maintain/manage electrical schematics and design documentation
- b. Select electrical/electronics components, manage drawing and schematic database, develop and maintain Bill Of Materials (BOM) and support components and HW purchase.
- c. Develop assembly, integration and testing plans and procedures
- d. Support the design, development and validation of power conversion components, controls software and hardware, subsystems and systems
- e. Carryout design and troubleshooting activities such as: Circuit design and testing
- f. Carryout the layout, assembly and test of electronic circuit boards and electrical systems

- g. Interface with manufacturing/operations and suppliers/vendors in support of assembly/production and procurement activities
- h. Support system assembly, integration and testing
- i. Carryout tasks and responsibilities in an Integrated Product Team (IPT) environment to ensure clean hand-offs, Interfaces are well defined and understood to ensure a coherent, low risk system solution is developed
- j. Coordinate the development of system, subsystem and component requirements technical/performance as defined by the high level program objectives and customer (internal/external/market) product/solution application
- k. Support product development reviews in accordance with the company's Engineering development process (Stage Gate Process)
- l. Ensure all technical documentation is generated in accordance with company's Engineering process, and Program/Customer deliverables/expectations
- m. Promote a safe working environment as well as a stringent focus on risk understanding and management, Design for Manufacturability (DFM), Design To Cost (DTC) without sacrificing quality and reliability.
- n. Understanding of analog circuit design

Requirements:

- a. 2+ years of hands-on engineering development experience
- b. Power Systems/industrial background a plus in heavy electro-mechanical and mechanical equipment and operations (hydraulics, welding and steel structure fabrication, pumps, compressors, rigging, electric power generation and distribution, Power Electronics and marine operations)
- c. Marine experience a plus - spent time in the marine or offshore industry with knowledge of techniques, practices, vessels, equipment.
- d. Demonstrated track record of challenging status-quo, continuously seeking business execution improvement (leaner, faster and better)

- e. Software Capability- Electrical simulation tools such as Spice, Simulink, ORCAD, or similar
- f. MS Word, Excel, MS Project, Outlook, PowerPoint
- g. Self-starter. strong work ethic and who displays our Company Core Values

Requirements:

- a. Engineering degree (BS minimum)