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Registration No.: 9333290271

Job Title: Electronics Engineer (Embedded Hardware)
Department: Research & Development
Reports to: R&D Manager

Overall objective of Job Function

Design of renewable energy solutions for the consumer electronics industry, including selection of components, designing PCBs, designing and performing hardware tests, making custom testing tools, designing other related hardware needed (e.g. test benches, product casings, etc.) and provide input towards product and process hardware accommodating software.

Job Description (Tasks, Responsibilities & Duties)

The position will focus primarily on electronic hardware, but as the team is small, the position will be expected to perform a wide variety of tasks

General Duties:

- Participates in the development of test strategies for devices and systems
- The applicant must be able to handle the requirements of a senior team member
 - Liaising with suppliers and PCB/PCBA manufacturers
 - Engage and provide insight in a multi-disciplined team
 - Capture and document product requirements
 - Assist in writing technical specifications
 - Manufacturing support
 - Testing procedures documentation
 - Jig Design
- Managing the implementation/testing of new versions of design software and hardware.
- Optimization of product performance requirements, cost, and reliability
- Preparing product and manufacturing documentation packages as required by project.
- Identifying and tracking technical issues and drive them to closure
- Tracks and reviews project status with management
- Coordinates the activities and provide peer guidance to/of lower-level engineers, technicians to bring projects to successful completion
- Interfacing with other R&D team members and supply chain as needed to develop cost-effective high-quality design.
- Interfacing with domestic and overseas fabrication and assembly vendors to develop capability criteria, maintain producibility checklists and procedures, and resolve production issues.
- Recommends changes in procedure, design or equipment where necessary
- Manage documentation and designs in a change-controlled environment

Technical Duties:

- Develop electrical-based systems including electronics, electrical harness and wiring, various sensor type selection and evaluation, and associated electrical systems
- Designing Power, Digital, Analog and RF layouts following Engineering specifications.
- Understanding and developing with the R&D team on material selection, impedance calculations, PCB stack-ups, PCB track layout, component placement, etc. during the design phase, and performing reviews on the design when it is ready for fabrication and/or assembly.
- Prototyping and testing of electronic circuits
- Electronic hardware design and PCB layout (Design for manufacture focus essential)
- Design verification and commercialization of electronic designs
- Liaising with electrical/mechanical team members where disciplines overlap
- Design review and motivation (Simulations where required)

Job Specifications

Qualification/Experience:

- BEng/BSc (Electronics Engineering or other relevant degree, e.g. Mechatronic Engineering).
- At least 10 years' experience (Embedded hardware with a Power Background).

Please forward your CV to martin.duplooy@stagezero.co.za

Closing date for submissions is 31 March 2023