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Registration No.: 9333290271

**Job Title:** Systems Engineer  
**Department:** Research & Development  
**Reports to:** R&D Manager

### **Overall objective of Job Function**

The System Engineer is a key contributor throughout all phases of the development project (life cycle management), ensuring that clear processes are defined and followed, requirements are established, broken down to lower levels and proven to be met by the product by functional testing, qualification and certification. You will be part of a Project R&D Team and will contribute to the project deliverables to ensure that these are met or exceeded. The Systems Engineer shall employ appropriate discipline processes, practices and tools to ensure efficient working practices and engineering discipline quality objectives.

### **Job Description (Tasks, Responsibilities & Duties)**

*The position will focus primarily on systems management of the product, but as the team is small, the position will be expected to perform a wide variety of tasks*

#### **Key Responsibilities:**

- Assist with the establishment and execution of technical processes for:
  - Defining product (system) requirements and design
  - Allocation of product (system) requirements from system level to HW/SW level
  - Defining interface specifications
- Assist with the establishment of technical management processes for:
  - Design (Life cycle management)
  - Risk management
  - Configuration management
  - Quality assurance
- Ensure that requirements relevant to the product and market, are established based on input from local regulatory bodies (Sanas, SABS, NRCS, etc.), international standards (IEC, etc.) and captured in compliance documentation (e.g., letter of authority, etc.)
- Ensure allocation of said requirements are established in cooperation with design team
- Organize and link requirements in a logical way by assisting with the development of a requirements tracking tool
- Produce evidence that processes have been followed and requirements have been met by test and qualification (etc. product compliance test report)
- Ensure System Validation and Verification Plans are prepared to provide evidence for functional and non-functional requirements

#### **General:**

- 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
  - Engage and provide insight in a multi-disciplined team
  - Capture and document product requirements
  - Assist in writing technical specifications

- Managing the implementation/testing of new versions of design software and hardware.
- Optimization of product performance requirements, cost, and reliability
- Tracks and reviews project status with management
- 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.
- Recommends changes in procedure, design or equipment where necessary
- Manage documentation and designs in a change-controlled environment

### **Job Specifications**

#### Qualification/Experience:

- BEng/BSc (Electrical Engineering or other relevant degree).
- At least 10 years' experience (New product development environment).
- Experience with certification authorities and working knowledge of relevant local regulatory bodies and international standards pertaining to electrical consumer goods specific to renewable energy source/generation.

#### Required Skills:

- Excellent communication and technical writing skills
- Strong working knowledge of MS Office
- Structured work processes and methods

#### Advantageous Skills:

- Strong communication and listening skills
- Working knowledge of requirement capture and break down tools
- Design/Implementation of standards/workflows
  - Structured/Systematic hardware management
  - Release testing procedures
  - Documentation standards
  - Version Control

Please forward your CV to [martin.duplooy@stagezero.co.za](mailto:martin.duplooy@stagezero.co.za)

Closing date for submissions is 31 March 2023