

Senior Hardware Engineer

Job Description & Person Specification

Stannah

Company: Stannah Group – Home Accessibility

Function: Stairlift Engineering

Reports to: Hardware Team Lead

Purpose

Design, deliver and maintain electronic hardware solutions for safety critical consumer products.

Key Responsibilities

1. Develop all aspects of electrical/electronic hardware designs for safety critical applications.
2. Develop hardware documentation, maintaining traceability through to implementation ensuring all stakeholder requirements are met.
3. Utilising change and version management control through the development process via PC-based management tools.
4. Verify designs against requirements by means of practical laboratory tests and in support of the Test and Development team.
5. Support the DFMEA process, from system to component level, to analyse and validate adherence to the design requirements.
6. Produce technical documentation to support contract manufacturing, production, installation and service.
7. Carry out the assessment of the safety of product designs using Product Safety Hazard Analysis process.
8. Coaching and mentoring of junior colleagues in the fulfilment of their role.
9. Responsible for peer reviewing and sign off of engineering documentation.

This list is not exhaustive, and the jobholder will be expected to undertake any duties within their capacity to meet the needs of the business and/or the NPI engineering function.

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Managerial and Supervisory Responsibility

- None

Relationships

Internal

- The jobholder shall be expected to maintain close and effective personal working relationships at all levels of the business.
- Ability to communicate complex technical information and conclusions clearly and concisely.
- Able to manage sensitive information.

External

- The jobholder shall be expected to build working relationships with external agencies including suppliers and customers.

PERSON SPECIFICATION

Skills and Experience

- Proficient in the design and development of electrical / electronic systems. Preferably with experience of microcontrollers, safety critical elements, motor control, comms protocols (RF/infrared/board level), user display and sensor technology.
- Proficient of analogue and digital electronics design principles for motor drive and control solutions (Desirable).
- Knowledge of DC electrical wiring systems.
- Understanding of the V-model development process.
- Experience of working within a rigorous design framework implementing safety critical solutions to SIL2 (Desirable).
- Experience in the design and test of solutions to the requirements of EMC Directive 2004/108/EC (Desirable).
- Ability to plan, prioritise and organise their own workloads.
- Capable at interpreting and reporting data clearly and professionally.
- Proficient in the use of design tools to realise PCB (essential) and wiring loom designs (desirable).
- Competent in the use of 2D CAD packages for production of technical diagrams.
- Proficient practical skills for the production and test of electrical/electronic prototypes.
- Proficient in the use of PC tools; Microsoft Word, Excel, PowerPoint, etc.

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Personal Attributes and Behaviours

- ✓ Professional behavior commensurate with representing Stannah at appropriate levels.
- ✓ Committed to upholding the Stannah brand values while working as part of a multidiscipline team, with a responsible attitude to health and safety and regulatory matters.
- ✓ Diligent and detailed approach.
- ✓ Self-motivated and demonstrate initiative.
- ✓ Committed to continuous improvement.

Education and Qualifications

- Holds an HNC/Degree (or equivalent) in an engineering discipline relevant to electrical/electronic engineering.