

# Hardware Engineer

## Job Description & Person Specification

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**Stannah**

Company: Stannah Stairlifts

Function: NPI Engineering

Reports to: Lead Hardware Engineer

### **Purpose**

To generate and deliver hardware design solutions serving the new product introduction function within the Engineering department.

### **Key Responsibilities**

1. Develop all aspects of electrical/electronic hardware design solutions of new products to corporate and international standards.
2. Develop hardware engineering documentation, maintaining traceability through to implementation ensuring all stakeholder requirements are met. Utilising change and version management control through the development process via pc-based management tools.
3. Ensure designs are functionally tested to the defined requirements, in the lab and with support of test departments (Local and External).
4. Support the DFMEA process, from system to component level, to analyse and validate adherence to the design requirements.
5. Produce technical documentation to support the following departments / functions; contract manufacturing, production, installation and service.
6. Support the team in the assessment of the safety of product designs using Product Safety Hazard Analysis process.
7. Support the mentoring of junior colleagues in the fulfilment of their role.
8. Support the team with peer reviewing 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.*

### **Managerial and Supervisory Responsibility**

- None

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### Relationships

#### Internal

The jobholder will be expected to maintain close and effective personal working relationships at all levels of the organisation. The communication skills required include the ability to communicate technical, complex and sensitive information.

Departments the jobholder may be expected to communicate with are as follows;

Mechanical engineering team

Software engineering team

Test team

Concepts engineering team

Purchasing team

The product and supplier quality departments

Production engineering team

Technical support team

The customer support team

#### External

External agencies including suppliers and customers.

### PERSON SPECIFICATION

#### Skills and Experience

- Experience in the design and development of electrical / electronic systems, preferably which include some if not all the following elements; microcontrollers, safety critical elements, motor control, comms protocols (RF/infrared/board level), user display and sensor technology.
- Knowledge 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 of interpreting and reporting data clearly.
- 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.
- Competent in the use of PC tools; Microsoft Word, Excel, PowerPoint and Project.

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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.

### Other Information

- Standard working Hours: 37 hour working week, 8am till 4:45pm with 45 minutes unpaid lunch Monday to Thursday. Fridays are 8am till 1pm with no lunch break.
- Flexi time will be discussed at interview
- The jobholder will be based at their contracted address and will be expected to travel off site (either other Stannah facilities or external suppliers and customers as and when required).
- 25 Days Annual Holiday plus 8 Bank Holidays with the option to purchase an additional 5 days + additional long service holiday
- Discount/ Rewards Scheme- including cinema discounts, annual free flu jab, discounted hotel and theme park stays and discounts off many high street shops.
- Quarterly Bonus
- Contributory Pension (up to 8%)
- Health Cash Plan covering routine treatment and prescriptions
- Free onsite parking
- Employee Assistance Programme
- Subsidised Canteen