

Job Title: Hardware Engineer	Location: Hunmanby UK
Department: Engineering	Contract: Permanent
Reports To: Program Manager & Chief Engineer	Direct Reports: N/A

1.0 Job Summary & Role

The individual will work within the Engineering department located at DSE headquarters in Hunmanby (North Yorkshire) or in Mansfield (Nottinghamshire). They will perform embedded development activities on new product developments as well as maintaining the current product portfolio.

The company products operate in the Energy control and automation market and are designed to provide energy throughout a wide range of forms such as generator sets, renewable, microgrid as well as off-highway machinery.

2.0 Key Responsibilities & Main Duties

- Design and implement hardware of embedded devices and systems from requirements to production and commercial deployment.
- Translate the market requirements into technical product specification.
- Design, develop and test according to the technical product specification.
- Interface with embedded design and development.
- Interface with the PC software design and development.
- Optimizing the products according to the production and sales needs.

3.0 Internal & External Relationships

Engineering Management – take work tasks and direction from and report to

Test and Approvals department – the hardware engineer will work closely with the test and approvals team to understand the reports and provide solutions.

Technical Support – assist technical support with more involved customer queries, and technical authoring support

Commercial sales team – Support during development phase and requirements gathering.

Customers – Occasional customer interaction may be required in calls, meetings or traveling to visit a customer.



4.0 Key Performance Indicators

- Attention to detail, able to work both individually as a part of a team and self-discipline required for hardware developing and testing.
- High quality hardware development minimising the number iterations.
- Ability to work against timescales and deliver the hardware with the expected quality on time.

5.0 Essential/Desirable Factors

Knowledge	
Essential: <ul style="list-style-type: none"> - CAD design tools - Electrical theory - Analogue and digital design - EMC principles 	Desirable: <ul style="list-style-type: none"> - Knowledge of C
Skills & Attributes	
Essential: <ul style="list-style-type: none"> - Familiar with stage gated / agile development approaches. - Comfortable collaborating closely with electronics engineers on embedded systems - Used to working to a high-quality standards. - Excellent team player with problem-solving and trouble-shooting capabilities - Used to defining a task breakdowns for a give piece of work and providing estimates. - Ability to translate requirements into a technical product specification. - Used to working in a high-paced environment. - Good communication skills and ability to discuss product development issues within team of engineers from many different specialities. - Enthusiastic and optimistic. 	Desirable: <ul style="list-style-type: none"> - Understanding of embedded software
Experience	
Essential: <ul style="list-style-type: none"> - H/W design with good knowledge of general embedded industrial controller design - Experience of analogue hardware design including signal conditioning / processing. - Analogue sensor interfacing & interfaces to monitor external sensors, both analogue & digital. - Good knowledge and experience with wide variety of serial communication systems. - Good knowledge and experience with Micro controller based hardware design including peripherals and power supplies as well as external high speed bus interfaces. - Experience in design using discrete components to create specific solutions as 	Desirable: <ul style="list-style-type: none"> - Experience in designing test equipment to enable specific testing of unique product features. - Knowledge of Cadstar - Knowledge of Altium - Working knowledge & understanding of PCB design & layout requirements particularly with respect to EMC



JOB DESCRIPTION & PERSON SPECIFICATION



<p>well as use of highly integrated chip solutions.</p> <ul style="list-style-type: none"> - Good working knowledge of Schematic capture S/W - EMC Design, thorough understanding & experience designing for EMC compatibility for emissions and immunity within and industrial situation. - Creating EN safety reports 	
Qualific-ations	
<p>Essential:</p> <p>BEng in Electrical Engineering or equivalent</p>	<p>Desirable:</p> <p>MEng in Electrical Engineering or equivalent</p>

Created by	Dated Created
Sergi Gomez / Chief Engineer	07/06/21

