JOB DESCRIPTION & PERSON SPECIFICATION

Job Title: NPI Design Engineer	**Location:** Hunmanby
Department: Engineering	**Contract:** Permanent/Full-time
Reports To: Hardware Team Manager	**Direct Reports:** None

1.0 Job Summary & Role

The individual will work within the Engineering department located at DSE headquarters in Hunmanby (North Yorkshire). They will work on a range of tasks introducing designs from internal and external designs into our production facility. They will also contribute to design tasks on new products as a member of the hardware design team.

2.0 Key Responsibilities & Main Duties

- Facilitate the seamless transition of external designs to the in-house production facility at DSE.
- Review designs for production suitability and work with external entities to make improvements
- Follow a defined process and maintain a consistent approach in ERP and eCAD systems.
- Gain a thorough understanding of manufacturing processes and review designs for production readiness and suitability for high-volume builds with increasing levels of automation.
- Work independently on new and existing designs to integrate cost-saving opportunities into analogue, digital, and microcontroller circuits for controls and automation applications.
- Estimate individual tasks and work packages, contributing to project planning activities and identifying and mitigating areas of risk.
- Maintain high levels of attention to detail and perform administrative activities involved in creating and maintaining BOMs in the company ERP system.
- Contribute to the training and coaching of less experienced and technical colleagues, assisting them in achieving their goals.
- Work with team managers and leaders to progress multiple projects in parallel.

1.0 Internal & External Relationships

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

- Test and Approvals department – work closely with the test and approvals team to ensure correct level of testing.
- Work with purchasing department to qualify new parts
- Coordinating with other departments to ensure smooth production of final products

2.0 Key Performance Indicators

- Attention to detail, able to work both individually as a part of a team
- Efficient approach to tasks.
- Ability to work against timescales and deliver the test reports with the expected quality on time.

3.0 Essential/Desirable Factors

Knowledge

Essential:	Desirable:
- Basic electronic component and circuit theory - Analogue and digital Hardware design - EMC Principles - Familiar with stage gated / agile development approaches. - ERP systems with MRP modules - Good understanding of SMT, PTH components and PCB assembly process	- Electrical theory for power generation

Skills & Attributes

Essential:	Desirable:
- Attention to detail - Used to working to a high-quality standard. - 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 hardware design issues within wider audiences - Enthusiastic and optimistic.	- Ability to bring in technical data from external companies and prepare for use in DSE manufacturing process.

Experience

Essential:	Desirable:
- ERP systems and BOM structures - Ability to read and translate Schematic capture S/W - Experience with Altium	- Knowledge of Cadstar - Epicor ERP system

- Creating component acceptability reports	

Qualifications

Essential:	Desirable:
- HNC in Electrical Engineering or equivalent	- HND or BEng in Electrical Engineering or equivalent

Created by	Dated Created
Engineering Management	18/09/2024