

JOB DESCRIPTION



Job Title: Mechanical Design Engineer Solidworks	Location: Hunmanby Main Site
Department: Production Development	Contract: Permanent
Reports To: Production Development Manager	Direct Reports: N/A

1.0 Job Summary & Role

To take the lead role as a Mechanical Design Engineer within the production development team, in this team we design, build, wire, and develop the software for all test fixtures that go into production. These fixtures are required to test every unit functionally before it leaves the business.

2.0 Key Responsibilities & Main Duties

- Design a test fixture to house one of DSE's controller so we can fully functionally test the unit
- Create BOM's
- Create assembly drawings
- From the 3D design create CNC program from the individual parts.
- Operate flatbed CNC machine
- 3D Printing test parts
- Assembling and modifying parts where needed
- Design and manufacture jigs to aid production in there build process.
- Other duties as and when required to ensure the smooth running of the production area

3.0 Internal & External Relationships

Liaising with the engineering team to discuss what to probe to on the PCB's and the case design there will be times when you will need to be out in production to look at the design and build of fixtures see where the problems are and make changes accordingly.



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4.0 Key Performance Indicators

- Complete training for file storage and naming to DSE standards
- Work with our team members to improve and standardised test equipment

5.0 Essential/Desirable Factors

Knowledge	
Essential: <ul style="list-style-type: none"> • Knowledge of Solidworks, Hypermill CNC file creation • Pneumatics, and pressure vessels would be an advantage. 	Desirable: <ul style="list-style-type: none"> • Knowledge of modern manufacturing methods and techniques. • Creo – 3D CAD Software
Skills & Attributes	
Essential: <ul style="list-style-type: none"> • Design • Assembly • Testing 	Desirable: <ul style="list-style-type: none"> • CNC & Milling
Experience	
Essential: <ul style="list-style-type: none"> • Experience in a similar position (Design of assembly fixtures and tooling). 	Desirable: <ul style="list-style-type: none"> • Knowledge of hydraulics,
Qualifications	
Essential: <ul style="list-style-type: none"> • Relevant engineering education and/or training 	Desirable: <ul style="list-style-type: none"> • Degree or HND in Engineering

Created by	Dated Created
Lee Uttley Production Development Manager	11/08/22

