

Enatel

Position Description

Position: PCB Mechanical Engineer

Department: Engineering

Reports to: PCB Mech Team Leader

Direct Reports: None

Scope of Role:

The PCB Mechanical Engineer is a member of the Research and Development Team. The position is a joint PCB-Design & Mechanical Engineering support role, working where the demand is higher: part of the time providing Mechanical support and part as PCB support. As a member of the Engineering team, you are expected to take an interest and give significant input and advice into projects being worked on by other members of the team while carrying out PCB design and/or PCB revision updates using Altium. The role also involves new mechanical design and/or design modification and support for new and existing product developments using Solidworks; it also entails generating mechanical drawings, designing test jigs and building prototype metal & plastic parts and assemblies.

The purpose of this joint role is to work alternately with the PCB Designers and Mechanical Engineers, depending on demand.

Key Responsibilities:

To render conceptual designs into manufacturable product, for both PCB and mechanical parts and assemblies. Create schematic diagrams that are both readable and aesthetically pleasing. Turn these schematics into beautiful CAD designs. Progress these CAD designs into the CSI system and the manufacturing environment.

PCB CAD Design:

To design new and modify existing PCBs for Enatel products, test equipment or manufacturing jigs taking into account:

- Enatel Design for Manufacture guidelines
- Cost effectiveness of parts and PCBs
- Ease of manufacture (DFM)
- Development time
- Product reliability
- Future product enhancement
- Physical constraints as negotiated with the mechanical designers

Key Mechanical Responsibilities:

- Work as part of the Enatel design team with focus on mechanical designs
- Take designs from concepts through to volume manufacturing
- Support current products
- Support quality department and any supplier related issues
- Assist production with information or concepts for jigs, tools and fixtures
- Complete drawings that provide the right level of information for suppliers to make item correctly and consistently
- Make design focused on DFM for supplier and Enatel manufacturing
- Design with item cost as key focus
- Create any subsequent documentation/reports/test plans as required
- Take RMA feedback and improve product design
- Validation of alternative components
- Ownership/control/drive any new BOM/drawing changes
- Design for compliances– electrical safety, EMC etc
- Work with International vendors

Required Skills

- Experience using Altium PCB design software
- Knowledge of PCB design criteria for manufacturing (DFM)
- Familiarity with hardware/software development life cycles and working in a team environment on new product development projects
- Experience using Microsoft Office tools
- Ability to work independently and within a team environment
- Strong problem-solving skills
- Experience designing with 3D CAD (SolidWorks), within a manufacturing environment
- Experience in a professional engineering environment or product-development industry

General:

- Upholds the company values
- Perform any other tasks as required by your Manager and/or the business
- Contributes to the achievements of department goals and objectives.

Health & Safety:

- Ensuring all Health & Safety policies and rules are followed, with all tasks completed in a safety conscious manner
- Adhere to all health and safety policies whether at our Christchurch premises or elsewhere

Environmental:

Enatel is committed to minimising the environmental impact of our operations and products

- Ensuring Environmental policies and processes are followed

Key Relationships:

Internal	External
<ul style="list-style-type: none">• Management Team (as required)	<ul style="list-style-type: none">• PCB suppliers

<ul style="list-style-type: none"> • Engineering Department 	<ul style="list-style-type: none"> • Third party manufacturers and other suppliers
<ul style="list-style-type: none"> • Manufacturing Team 	<ul style="list-style-type: none"> • Contractors
<ul style="list-style-type: none"> • Product Management Team 	
<ul style="list-style-type: none"> • Mechanical Engineers 	
<ul style="list-style-type: none"> • Procurement Team 	
<ul style="list-style-type: none"> • Sales and Marketing 	
<ul style="list-style-type: none"> • Wider Engineering Team 	
<ul style="list-style-type: none"> • Production 	

Person Specification:

Attribute	Essential	Desirable
Skills & Competencies	<ul style="list-style-type: none"> • Functional/Technical Skills - has the functional and technical knowledge and skills to do the job at a high level of accomplishment. • Drive for Results – can be counted on to exceed goals successfully. Steadfastly pushes self and others for results. • Action orientated - enjoys working hard and is full of energy for the things he/she sees as challenging. • Customer Focus – Is dedicated to meeting the expectations and requirements of internal and external customers. Establishes and maintains effective relationships with customers and gains their trust and respect. • Integrity and Trust – is seen as a direct, truthful individual; is widely trusted. • Process Management – good at figuring out the processes necessary to get things done. Can simplify complex processes. • Learning on the Fly - the ability to learn quickly in a new environment. • Priority Setting – Spends his/her time and the time of others on what’s important. Can quickly sense what will help or hinder accomplishing a goal. Eliminates roadblocks and creates focus. • Problem Solving – looks for opportunities to resolve issues and solve problems. Learns quickly when facing new problems. 	
Experience & Knowledge	<ul style="list-style-type: none"> • 2 years’ experience. • Experience working in a development and /or manufacturing environment. 	<ul style="list-style-type: none"> • Experience in an electronics environment.
Qualification / Licenses	<ul style="list-style-type: none"> • Applicable tertiary qualification would be an advantage. 	