

Enatel

Position Description

Position: Senior Firmware Engineer

Department: Engineering

Reports to: Hardware Team Lead

Direct Reports: None

Scope of Role:

The Senior Firmware Engineer is a member of the Research and Development Team. As a member of this 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.

Key Responsibilities:

- Firmware Design & Development - to contribute to the firmware design and development of Enatel products and test equipment/jigs, considering
 - Product functionality
 - Development time
 - Product reliability
 - Ease of use of the product by the customer
 - Future product maintenance
- Collaborate with the hardware, software, Mechanical/PCB teams and other key business roles such as project managers, product managers to achieve key business objectives
- Develop firmware utilising internal tools and methodologies
- Write clean and well documented code for a range of projects
- Ability to conform to existing development processes, tools, and standards (including code, build process, environment, and configuration management standards) while continuously improving on them
- Keep current with power electronics technologies
- Escalating issues and risks in a timely manner
- Working to plan and committing to schedule
- Monitoring and communicating time allocations and conflicts to ensure all interested parties are aware of progress and time utilisation
- Positively influence Enatel design. Be able to guide designs for simplicity, size, design time and/or cost
- Ensuring design elements are completed on time and in-line with product road maps.
- Working with cross functional departments to ensure products meet all sales and manufacturing requirements.

Product Maintenance:

To modify, enhance and maintain existing Enatel product as required

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"> • Contractors
<ul style="list-style-type: none"> • Engineering Department 	<ul style="list-style-type: none"> •
<ul style="list-style-type: none"> • Sales Team 	<ul style="list-style-type: none"> •
<ul style="list-style-type: none"> • Product Management Team 	<ul style="list-style-type: none"> •

Person Specification:

Competencies	Essential	Desirable
Skills & Attributes	<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. • Action orientated - enjoys working hard and is full of energy for the things he/she sees as challenging. • Integrity and Trust – Is seen as a direct, truthful individual; is widely trusted. • Learning on the Fly – Learns quickly when facing new problems and is open to change. Quickly grasps the essence and the underlying structure of anything. Experiments and will try anything to find solutions. • Creativity – Easily makes connections among previously unrelated notions. Tends to be seen as original and value-added in brainstorming settings. 	

	<ul style="list-style-type: none"> • Problem Solving – looks for opportunities to resolve issues and solve problems. Learns quickly when facing new problems. • Process Management – Good at figuring out the processes necessary to get things done. Can simplify complex processes. • Organising and Planning -Uses resources effectively and efficiently. Accurately scopes out length and difficulty of tasks and projects. Sets objectives and goals. 	
Experience & Knowledge	<ul style="list-style-type: none"> • 8+ years' experience in a firmware/embedded software role. • Solid knowledge of power electronics, power magnetics • Solid knowledge of digital/embedded control systems • Ability to effectively use software tools. SPICE, PCB CAD, FEA, MatLab etc • A core base of technical skills including a combination of: <ul style="list-style-type: none"> • Development using C/Assembly coding languages & ability to write modular reusable code • Real time OS • A passion for producing stable, clean, maintainable code • Proficient understanding of source control software (e.g. Git, feature branching and rebasing) and Jira • Familiarity with any Agile development methods • Familiarity with build tools and DevOps best practices • Familiarity with testing automation tools. • Ability to design and apply the continuous integration capability in a complex enterprise environment 	<p>Experience working in a development and /or manufacturing environment</p> <p>Familiarity to Agile methodology</p> <p>Familiarity with Jira</p> <p>Experience using Microsoft Office tools</p> <p>Exposure to embedded software</p>
Qualification / Licenses	Suitable tertiary qualification	