Position Description

Position: Senior Engineer (Level I) – Hardware

Department: Engineering

Reports to: Power Conversion and Hardware Team Leader

Direct Reports: None

Role Purpose	As a Senior Hardware Engineer, you will leverage your specialised skills to work through multiple, simultaneous, complex, and unique product design and development situations that can have a high degree of uncertainty. You will play an active part in the planning of current and future products as well as relevant quality checks throughout the development process to verify they conform to specification. You will also provide leadership, coaching, support, and development of team members across engineering at as technical level. This includes aligning, motivating, and inspiring our next generation of engineers.		
Key Success Outcomes	 Lead the development of high-quality hardware designs that conform to specification, project timelines, project budget and excite our customers. Be a champion for design, process and tool best practices. Be seen internally as a leader of your domain that developing engineers can be inspired by, peers respect, and stakeholders trust. Demonstrate ownership and accountability for critical product developments through high quality development definition, on time product release and compliance to customer requirements. Proactively understand, monitor, and adapt to changing stakeholder needs and expectations while ensuring clear communication and satisfaction. Deliver innovative, reliable, and cost-effective designs across products, ensuring alignment with the latest technologies and maintaining high standards of functionality, compliance, and maintainability. Provide coaching, guidance, and support to engineering team members, fostering skill development and collaboration across the team. 		
Key Internal Relationships	 Sales/Marketing team, Product Management Project Management Engineering teams including Engineering Services, CAD Services, Systems Solutions and Power Management. Operations team including manufacturing, sourcing, logistics. Other Enatel departments as required 		
Key External Relationships	 Customers Third party manufacturers & other suppliers. Contractors 		



Key Requirements

Accountability Area	Desired Outcome/Achievement Indicators	
Working with Internal and External Customers	 Fully understand the internal and external customer relationships and requirements. Understands stakeholder needs and expectations and monitors for changes in stakeholder requirements. Manage stakeholder expectations at all levels of the business. 	
Leadership	 Lead team members through investigation, planning and implementation of design solutions that meet customer needs. Provide leadership coaching, support, and development of other team members across engineering. Identify and implement opportunities for improvement within the team. 	
Product Design, Verification and Ongoing Support	 Understand user needs, align with different stakeholders, study systems flow and integration, define required work processes, and investigate any problem areas. Determine feasibility by evaluating analysis, problem definitions, requirements, and alternative solutions. Develop and maintain high quality designs and architecture across multiple products and product families, including product functionality, reliability, design for manufacture, test & compliance, ease of use and maintainability. Develop and maintain cost-effective solutions by producing clean, efficient designs. Identify, prioritise, and execute tasks across the entire development life cycle from requirements capture to design integration, verification, and customer validation. Automate tasks through appropriate tools and scripting where appropriate. Review and improve designs using data from multiple sources (e.g., RMA, production, and test yield etc.), ensuring all designs are up to date and aligned with the latest technologies. Ensure all designs are up to date with the latest technologies. Escalate issues and risks in a timely manner. Work to plan and commit to schedule. Support, modify, enhance, and maintain existing Enatel product designs including timely resolution of any Product Holds. 	
Design Lifecycle Management	 Conform to hardware development processes, tools, and standards (including design, documentation, environment, change and configuration management standards) while continuously improving on them throughout the entire design lifecycle. 	



	•	Continually improve and review quality control processes, including relevant standards, peer review process, testing, and integration processes.
Research and Development	•	The Senior Hardware 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 into projects being worked on by other members of the team.

Other duties:

- Upholds the company values.
- Perform any other tasks as required by your Team Leader 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.
- Maintaining a safe and clean working environment by complying with Enatel Policy and Procedures.
- Leads by example in all matters relating to Health & Safety.

Environmental:

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

• Ensuring Environmental policies and processes are followed.

Person Specification:

	Essential	Desirable
Competencies	 Functional/Technical Skills - has the f and skills to do the job at a high level of Action orientated - enjoys working hat things they see as a challenge. Process Management – good at figuri get things done. Can simplify complex Learning Agility - the ability to learn q Problem Solving – looks for opportun problems. Learns quickly when facing r Integrity and Trust – is seen as a direct trusted. Ethics & Values - Has an appropriate a beliefs, and acts in line with those value 	of accomplishment. rd and is full of energy for the ng out the processes necessary to processes. uickly in a new environment. ities to resolve issues and solve new problems. t, truthful individual; is widely



	1 Lyoars proven experience in	EDGA/CLDD design (V/UDL ar
	4+ years proven experience in hardware development	FPGA/CLPD design (VHDL or similar).
		Sirinar).
	Full competency, supported by knowledge and experience in the following:	Battery and battery pack design using various battery technologies (including lithium cells).
Skills, Experience & Knowledge	 A Power electronics background, including experience with Buck-Boost, Flyback, SEPIC/Cuk, DAB and LLC. Further experience in Magnetic Design – Inductor, Transformer, Material Selection, Parametric Design Designing and building hardware solutions that have been delivered to customers on time, to budget and to the required quality standards (includes scope). Simulation tools (LtSpice, Tina, Micro-Cap), Mathcad (Maxima, Scilab, Python), thermal, magnetic, and electric field FEA and project management techniques. National and international regulatory frameworks including UL, RCM, CE, CEC, FCC and CB as well European directives (low-voltage, EMC, RED). Altium. Design for EMC/EMI and design for manufacture. Hardware test and monitoring tools (oscilloscope, spectrum analyser and power meters). Differing SMPS topologies, PCB layout for power solutions (including creepage and clearance distances) and SMPS design (closed loop control, amplifier / magnetics design and noise control). Agile development tools and techniques including scrum and Kanban. 	

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	 Configuration management and change control. Electronics design, including the ability to understand and navigate electrical schematics. The individual is regarded as a thought leader in their respective field. Ability to take a project from significant uncertainty in the early discovery phases through product launch. Strong commercial and business acumen. Good financial, reporting, and quantitative skills. Analytical mind with problem-solving aptitude. Ability to work independently. Excellent organizational and leadership skills.	
Qualification / Licenses	Degree in electrical / electronic engineering, or equivalent vocational training.	Membership of a relevant industry body (e.g., IEEE)

