



Position	Description	Responsibilities	Requirements
Power electronics hardware engineer	As part of Delta Electronics development team, your mission will be to provide competitive hardware design, while delivering the highest power density and efficiency. You will be involved with state-of-the-art topologies, wide band gap devices and advanced magnetics. Your focus will be on projects related to the e-mobility ecosystem such as high density EV charging solutions, energy storage, and power routers ranging up to several hundred kW	- You take ownership of new technology development and hardware design from specification to design, prototyping, testing, manufacturing, and field failure analysis - You work with other functions such as procurement, safety, and manufacturing - You report on current development status and meet up customer's expectations on schedule and performance - You evaluate concepts and feasibility of new architectures - You work with vendors and partners for new component and services that can be integrated into the designs - You develop competitive solutions based on SiC and GaN devices - You design and build high density converters, inverters, and power routers	- Dynamic, motivated, and team player with excellent analytical mindset - Excellent English (read, written, spoken) - Continuous interest in learning high level technologies - Minimum bachelor degree with at least 5 years work experience in designing and building power converters. Advanced degrees a plus - Deep understanding of power electronics topologies such as ac-dc, dc-dc, bidirectional, PWM and resonant converters - Experienced in power converter modeling and control - Knowhow on power devices and driving requirements of MOSFETs, IGBTs, SiC and GaN - Knowhow on magnetic component design and thermal management - Experienced on simulation tools such as SIMPLIS, PSPICE, MATLAB/SIMULINK, PLECS, PSIM, Mathcad and Altium - Experience in troubleshooting designs and fixing EMC issues - Experience in component stress analysis, simulation and PCB concept design for EMC and safety - Professional knowledge on embedded systems will be a plus



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High frequency magnetic design engineer	Your mission will be to design and optimize high frequency magnetics such as transformers and chokes for high power density converters. You will explore transformers and chokes magnetic integration for PWM and resonant converters	▪ Work closely with EE teams to design magnetic components such as chokes and transformers ▪ Design and build very high density planar integrated magnetics for wide bandgap device converters ▪ Perform magnetics simulation and modeling on Ansys Maxwell 2D & 3D ▪ Design for manufacturability ▪ Coordinate with other R&D teams in different countries ▪ Work with other functions such as procurement, safety, and manufacturing ▪ Report on current development status and meet up customer's expectations on schedule and performance ▪ Evaluate concepts and feasibility of new architectures ▪ Work with vendors and partners for new component and materials	▪ Dynamic, creative, motivated, and team player with excellent analytical mindset ▪ Spoken English (read, written, spoken) ▪ Continuous interest in learning high level technologies ▪ M.S. or PhD degrees in magnetics or machine design ▪ Deep understanding of losses mechanisms in electromagnetic components ▪ Knowhow on magnetic component design and thermal management ▪ Experienced on simulation tools such as Maxwell, Quickfield, Comsol ▪ Familiar with magnetic materials and characteristics ▪ Familiar with insulation systems and standards