



Example of Power Electronics Engineer Job Description

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Our company is growing rapidly and is searching for experienced candidates for the position of power electronics engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for power electronics engineer

- Phased PPAP process support through supplier visits and sign off
- Support Supplier PPAP process through visits and document review (Control Plan and PFMEA)
- Support launch of vehicle programs, primarily breadboard and M1, AIMS resolution
- Work with a team comprised of Tier 1 suppliers, purchasing/STA, manufacturing, attribute teams, interfacing teams, and vehicle team
- Contributes to the department and business unit by applying their advanced knowledge of functional areas
- The candidate will provide direction to design or technical staff, and may lead a team of professional staff
- Design, implement, and test new power electronic control software to meet documented requirements for power conversion products (Wind, Solar, Drives)
- Review and analysis of applications and flow down of requirements
- Define electro-mechanical requirements for power converter products
- Develop power converter product concepts using modeling, simulation, and statistical design methods

Qualifications for power electronics engineer

- Strong understanding of power electronics fundamentals a must
- Familiar with electromagnetic field analysis using full-wave simulation tools
- Familiar with electromagnetic field measurement chambers and equipment
- Hands-on experience designing, manufacturing, developing or testing power electronic systems
- Prior experience in vehicle electrification a strong plus