



Example of Power Electronics Engineer Job Description

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Our company is looking for a 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

- Ensure product meets program requirements, including cost, performance, and reliability targets
- Be responsible for technical direction and decisions for assigned product development projects
- Work with a multi-disciplinary engineering development team that includes controls engineering, power conversion design, mechanical design, control hardware design, and Integration / Test
- Develop FMEA and risk mitigation plans
- Work with the project leader to ensure appropriate resources and schedule
- High voltage switching power supply test and development
- Analog and digital circuit test and development
- Test and debug of prototype and production power supply assemblies
- Design verification testing of completed products
- Interface with test technicians, assembly personnel, engineers, customers and suppliers

Qualifications for power electronics engineer

- 2 + years experience with vehicle level electrical systems design development process
- Familiarity with grid operation is a strong plus

- Calculation of power losses and efficiency optimization
- Knowledge about different circuit test methods