



Example of Power Electronics Engineer Job Description

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Our company 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

- Participate in recruiting and hiring of technical staff
- Has a proven track record in providing innovative solutions that result in a clear technical advantage over competitor products, ideally demonstrated with filed patents
- Has the confidence to tackle something completely new and is able to cross pollinate ideas
- Commands respect from your peers, and is able to stand by your convictions and say no even in difficult situations
- Will be an expert in the development of battery management systems, including assessing alternative battery management solutions and topologies for different product requirements
- Has detailed knowledge of the design of motor inverters and control for brushless DC, servo and stepper motors
- Will work with the different product teams to gain an in depth product understanding, while using their expert knowledge to create innovative power electronics systems and solutions
- Has excellent knowledge of the latest technologies both within and outside of your field, including EMC/EMI regulatory, safety requirements and thermal management
- Will take technical responsibility for the power electronics output of the department prior to handover to the development teams through reviews,

robust, cost effective and fit for purpose for a high volume manufacture environment

- Will impart your expert technical knowledge to assist in the personal development of other team members

Qualifications for power electronics engineer

- Strong Software understanding
- Control Systems and PID Control/Calibration understanding
- Power Plant and Power Generation understanding
- Member of OIQ or another Professional Engineer Org
- Electrical site Safety Orientation (NFPA 70E, CSA Z462) is an asset
- Degree in Electrical Engineering (Master or PhD)