



Example of Design Electrical Engineer Job Description

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Our company is growing rapidly and is looking to fill the role of design electrical 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 design electrical engineer

- Understand Customer Specifications, Proposal Engineering For Cost Effective Solution
- Design new and derivative PCAs based on system and board design requirements
- Work closely with power, mechanical, thermal and software engineers to develop leading edge, innovative, cost effective system solutions for the high-performance computing industry
- Release new PCA designs into manufacturing and support root cause issue resolution during volume production ramp up of those designs
- Work independently and/or participate in task teams addressing complex system/problem analysis
- Designing of DC to AC inverters, DC-to DC converters, AC-to- DC converters, power regulation for battery management, and other related opportunities ranging from 10W to 2000W capability
- Create schematics by coordinating with PCB layout resources
- Prototype and execute test programs to verify compliance with applicable performance, regulatory, and quality requirements
- Coordinate with other functional teams during the life cycle of the product and be responsible for design modifications as required
- Lead the design efforts in development of new products and enhancements to existing products

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- Basic knowledge of Company and products
 - Familiar with technical publications and associations
 - Familiar with applicable industry standards, codes and regulations
 - BS or higher degree in Electrical Engineering or other electronics-based scientific degree
 - Cross-Functional Design Review - Cross-functional design reviews are a series of in-depth and disciplined sessions that bring broad cross-functional experience to bear on designs/or process approaches and details
 - Dimensional Variation Analysis - Developing understanding of inputs and outputs of a Dimensional Variation Analysis (DVA), knowledge of Geometric Dimensioning/ relationships, comparison to Monte-Carlo simulation and able to interpret the DVA results and use them to iteratively optimize the design