



Example of Electrical Design Engineer Job Description

Powered by www.VelvetJobs.com

Our company is growing rapidly and is searching for experienced candidates for the position of electrical design engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for electrical design engineer

- One line diagram drawings (single line diagrams) for low and medium voltage distribution (MCC, distribution panel, lighting panel)
- Elaboration, study and calculation of project specification electrical cables, electrical cables schedule – power cables (L.V
- Use CAD tools such as PCB layout software, schematic capture software, circuit simulation software, , to expedite and improve product designs
- Establish, modify, and test electrical requirements of devices based on regulatory standards and customer requirements
- Participate as part of a team or as an individual contributor on electrical design tasks
- Maintain and improve existing designs to assist in manufacturability, reduce cost, and improve quality
- Perform analyses and apply problem solving techniques in order to develop creative, innovative solutions to electrical and system design challenges
- Lead a team or participate in the development of electrical designs including requirements definition, risk mitigation, design, implementation, testing, and documentation
- Define validation/verification test and design architectures and strategies
- Interface with other engineering teams as needed and work with groups outside of engineering including suppliers of materials, contractors,

Qualifications for electrical design engineer

- Experience in industrial electrical design
- Knowledge in RF radiation, microwave and antennas or analog electronics is required
- Degree in an Electrical / Electronic / Electro-Mechanical / Electromagnetics Engineering discipline
- Background in design and manufacturing in the aerospace, industrial, or automotive industry desired
- Experience in design and debug of embedded microprocessor control systems desired
- Experience in Induction Motor and Permanent Magnet Generator technology, with materials background in magnet and magnetic properties an advantage