

JOB DESCRIPTION

Position: Electrical Engineer
Department: Engineering

Our organization has designed and manufactured AC Power and Communication Surge Protection Equipment for residential, commercial, and industrial applications for over 20 years. Our objective is not only to meet continually changing standards within our industry but also to continue to be a benchmark through innovation, design, technology, and product pace in the development of surge protection products.

As an Electrical Engineer, you will work with the Engineering, Research and Development, Sales and Marketing Departments, as well as end customers in order to recommend design concepts for manufacturing products that are reliable, durable and meet or exceed performance standards.

Your responsibilities will include:

- the development of AC, DC and Communication Line Surge Protection Devices for use in high and low voltage applications in a variety of industries
- to design, refine, and troubleshoot product; develop and implement pre-production testing and evaluation of designed circuits; produce limited quantity prototype/evaluation boards
- take marketing requirements and turn them into documented design requirements
- document guidelines related to the electrical engineering work performed
- to design and bring into production advanced technology electronic products for company advancement in the market
- work with customers during device design to incorporate application specific requirements
- proactively identify and correct design flaws as the product goes through prototyping phases
- design and layout circuit boards for product develop using computer assisted software when required or necessary
- deconstruct, analyze and evaluate current product designs for performance evaluation and/or redesign requirements
- interpret and apply applicable IEEE, UL, ETL and national electrical code requirements as they pertain to our applications

All employees are cross-trained to work in other capacities within the company, so these responsibilities are not all inclusive.

Other attributes helpful to this position:

- highly creative, and enjoy applying your vision and technical expertise in order to solve problems by developing obtainable solutions
- technically skilled but have the ability to carefully listen to others and objectively consider their ideas
- attention to detail with the ability to design within the scope of high level product objectives such as developmental deadlines, cost, size, operating environment, available manufacturing processes, etc.
- enjoy building, tinkering, designing, creating, modifying and experimenting

Requirements:

- Bachelor's degree in Electrical Engineering
- Strong verbal and written skills
- AutoCAD, SolidWorks, Eagle, Orcad is a plus
- Ability to travel and conduct site surveys periodically
- Familiar with IEEE Standards and UL Requirements
- Understanding of test standards and equipment to perform tests