



Senior Design Engineer Job Description

Position Summary

The primary purpose of this position is to design and develop electro-mechanical products that meet our customers' requirements for performance, quality, and delivery, while also meeting or exceeding company production and quality standards. Must be highly self-motivated, well organized, and quick to solve problems as they arise. Both independent work and working within a team is expected.

Qualification / Experience

- Bachelor's degree in Electrical (BSEE) or Mechanical (BSME) Engineering from accredited educational institution required. Prefer candidate that has project management and product development courses.
- Three (3) years of electric motor and/or gear design experience required. Six (6) years experience preferred.
- Experience in the development and testing of DC motors, as well as in-line, right-angle, and planetary gear motors required. Prefer experience in the field of PMDC, Universal, and/or BLDC motors and gear motors, as well as experience using ERP/MRP.
- Experience working with agencies to obtain UL and CE certifications preferred.
- Fluent working knowledge of Solid Works, AutoCAD, and MS Office required.
- Must be able to read, analyze, and interpret common scientific and technical journals, and detailed product drawings; respond to common inquires or requests from customers, regulatory agencies, or members of the business community; write reports for publication that conform to prescribed style and format; effectively present information to management and conduct customer presentations.
- Must have the ability to apply all general mathematical concepts such as calculus, fundamentals of plane and solid geometry, and trigonometry. Ability to utilize advanced engineering design software for performance and design integrity analysis.
- Must possess a high level of mechanical and electrical aptitude. Ability to define problems, collect data, establish facts, and draw valid conclusions.
- Experience with gear design software preferred.
- Must possess the ability to effectively communicate with non-English speaking vendors and customers.