



MECHANICAL ENGINEER

OVERVIEW:

The Mechanical Engineer designs, develops, and tests all aspects of mechanical components, equipment, and machinery. Applies knowledge of engineering principles to design products, such as engines, instruments, controls, robots, machines, etc. May be involved in fabrication, operation, application, installation, and/or repair of mechanical products. Requires a bachelor's degree in engineering and at least 10 years of experience in the field or in a related area. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

QUALIFICATIONS AND KNOWLEDGE:

Requires a bachelor's degree or higher in Manufacturing, Electrical, or Mechanical Engineering or related discipline

10-12 years of experience in the field or in a related area (electrical/mechanical)

SPC application and analysis experience

A working knowledge of IPC and other electronic industry standards

Automotive / Motor design engineering experience

Experience with Programmable Logic Controllers

Battery production/automation experience is preferred

Knowledge of the injection molding and thermoforming molding processes is a plus

Project Management experience/expertise – development, evaluation and management of complex project plans – tools and behaviors a must.

Proven ability to meet tight deadlines and work under pressure and on own initiative to get things done

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Support and enclosure design for motors, motor controller and batteries

Prove-out concepts through rapid prototyping

Analyze customer needs and requirements to propose solutions and determine project direction

Create design specifications and document all aspects of design from solid modeling to manufacturing prints.

Design, assemble and test/debug prototypes

Provide cost estimates based on Customer requirements and available time / resources

Lead the creation of a BOM for each project as well as the initial creation of quality / inspection documentation.

Cost estimating (COGS) and analysis, Bill-of-Material (BOM) preparation.

Research and develop new products / services

Other duties as assigned