



Design Engineer Job Description

Organizational Role – The Design Engineer is a pivotal member of the Engineering Division reporting to the Director of Engineering. This critical role brings ideation into design and manufacturability, delivering new technologies to the market, and is responsible for researching and developing ideas and processes for new products and improvements upon the performance and design of existing products. Creativity and free thinking design process, coupled with an expansive engineering lab, will give immediate feedback to design, function and manufacturability of all new and revised products. The duties for this position include: product design, material selection, design timeline, prototyping of new products, tooling and fixture design, and any other responsibilities assigned by the Director of Engineering.

This position will play a key role in driving the growth and profitability of all FeraDyne brands through successful design of new products, redesign of existing products, optimizing specified materials for manufacturability and identifying manufacturing efficiency gains.

Design Responsibilities and Objectives:

- Competent using computer-aided design / drafting (SolidWorks CAD) equipment and software to development designs
- Develop Engineering Drawings and specifications for consumer products using advanced drafting practices for manufacturing
- Create and revise production drawings (detail and assembly)
- Design and construct drawings for new products and improvements on existing products
- Create parts lists
- Create concepts, performance, and production criteria
- Identify and select materials needed for production
- Works collaboratively with colleagues and vendors to assure proper specs, performance, upper and lower control limits, and quality standards are communicated and achieved
- Competent understanding of patents and working within / around the confines of patented claims
- Assures that new designs are delivered on time and complete
- Design, model, and test prototypes for products
- Establish design briefs
- Make samples of working models for demonstrations
- Create engineering drawings for manufacturing jigs and fixtures
- Assist Quality Assurance with identifying critical dimension call outs

- Communicate with Tooling, QA, Engineering, and Manufacturing regarding new and revised prints
- Identify quality issues and implement problem resolution
- Implements hands-on solutions to product changes and implementation
- Effectively communicate with and maintain positive/professional relationships with managers and personnel within FeraDyne Outdoors
- Other duties as assigned to make development projects successful

Requirements

- Bachelor's Degree in Mechanical Engineering
- Minimum of 2 years work history with SolidWorks experience, archery familiarity preferred
- Project Management skills; focus on objective target dates/milestones, strong interpersonal skills with ability to lead small cross functional teams of varied backgrounds and skill sets
- Excellent interpersonal, verbal and written communication skills
- Excellent organizational, leadership and communication skills and problem solving abilities.
- Strong computer skills and working knowledge of MS Office (word, excel, outlook) and ability to draft equipment and floor layouts.
- Self-motivated and able to independently prioritize and meet deadlines with capacity to handle multiple tasks in a fast-paced, highly productive environment
- Working knowledge and experience of up to date manufacturing techniques