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East West - JOB DESCRIPTION

Mechanical Design Engineer

FLSA: Standard/Exempt
EEO Category: Professionals
Salary Grade: DOE
Created: 06/12/2017
Last Revised: 06/14/2017

When we started East West Manufacturing in 2001, our goal was to become a world-class manufacturing company. As we grew over the years, we added design services and distribution to support the production of superior products. In support of the continued demand for our design services, East West is looking for a Mechanical Design Engineer with a strong background in product development and program management that will be responsible for the execution of product design and value engineering projects through a combination of individual effort, directing internal engineering colleagues and leverage of domestic and international 3rd party resources. Projects that fall under the charter of Value Engineering primarily include electro-mechanical new product development, support of customer initiatives to expand their portfolio, implementation of generational product improvements and identification of cost reduction opportunities on existing products.

The ideal candidate is an experienced mechanical engineer, proficient in Solidworks, competent in other engineering disciplines with professional experience in a fee-for-service product development consultancy and an ability to manage both technical and business facets of complex projects. Qualified applicants will be comfortable interfacing directly with customers, translating their needs into project and managing the evolution from sketch – to print – to prototype – to production. This engineer needs to be self-motivated, resourceful, comfortable working individually and in international cross-functional teams

Reports to: Vice President of Value Engineering

Key Responsibilities:
Essential duties and functions, pursuant to the Americans with Disabilities Act, may include the following. Other related duties may be assigned.

1. Manage technical and program management aspects of value engineering projects through the full product development process.
2. Engage with customers and assist with authoring development proposals.
3. Create compelling products and cost-efficient engineering solutions that satisfy customer needs.
4. Author, edit and release to revision control technical project documentation including 2D, 3D, BOMs, assembly drawings, work instructions and test procedures.
5. Devise component strategy and execute on the creation of pre-production prototype samples.
6. Coordinate with domestic and international engineering teams to ensure that developed solutions can be produced in a controlled, repeatable manner by East West owned or managed facilities.
7. Conduct detailed design reviews with internal and international development teams.
8. Devise and execute qualification testing plans to ensure the design process produces robust, reliable products.
9. Participate in the transition of customer approved designs to the NPI team for tooling, PPAP and 1st production.

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Knowledge, Skills, and Abilities:
Must possess required knowledge, skills, abilities and experience and be able to explain and demonstrate, with or without reasonable accommodations, that the essential functions of the job can be performed.

- Mastery of Mechanical Engineering; understanding of the processes and deliverables of other engineering disciplines.
- Proficiency in Solidworks 3D modeling and experience creating GD&T compliant 2D prints.
- Understanding of interdisciplinary product development for a variety of markets.
- Ability to transition product concepts from sketch – to print – to prototype - to production.
- Familiarity with product validation and qualification test strategies and processes.
- Experience in a wide range of manufacturing processes and technologies.
- Ability to build trust and rapport with customers.
- Skill in handling multiple tasks and prioritizing.
- Skill in handling conflict and uncertain situations.
- Ability to work with frequent interruptions and changes in priorities.
- Ability to communicate effectively orally and in writing.

Minimum Qualifications:

- Education: Graduation from an accredited four-year College, University or Institute with major course work in Mechanical Engineering, or in a field related to the position. Master's degree preferred.
- Experience: 5-10 years' experience in engineering, product development, manufacturing or relevant industry experience.
- Strong track record of taking a product from sketch to production.
- Practical knowledge of electro-mechanical manufacturing process including PCB assembly, plastic injection molding and metal processing (stamping, casting, machining, forging, etc)
- Proficiency modeling in Solidworks and a general knowledge of ancillary Solidworks software products
- Competence or understanding of the processes and products of multiple engineering disciplines
- Strong preference given to candidates with experience working in a fee-for-service product development consultancy.

Licenses and Certifications Required:

NA

This description is intended to indicate the kinds of tasks and levels of work difficulty required of the position given this title and shall not be construed as declaring what the specific duties and responsibilities of any particular position shall be. It is not intended to limit or in any way modify the right of management to assign, direct and control the work of employees under supervision. The listing of duties and responsibilities shall not be held to exclude other duties not mentioned that are of similar kind or level of difficulty.