

Job Description

Mechanical Engineer

Position Summary

The Mechanical Engineer is responsible for the complete mechanical design of custom packaging and robotic palletizing systems. This role supports projects from initial concept through fabrication, assembly, and testing. Using AutoCAD and Autodesk Inventor, the engineer produces system layouts, detailed drawings, and assembly documentation required for manufacturing and installation.

The Mechanical Engineer works closely with cross-functional teams—including electrical engineering, manufacturing, purchasing, and account management—to deliver high-quality equipment that meets or exceeds customer requirements. This position is part of a fast-paced engineering team focused on continuous improvement and innovative system design.

Essential Duties and Responsibilities

Mechanical Design & Engineering

- Design mechanical systems and components for packaging and robotic palletizing equipment.
- Develop system layout drawings, assembly drawings, and detailed fabrication drawings.
- Prepare complete drawing packages and project documentation for fabrication, assembly, and installation.
- Generate accurate bills of materials (BOMs) and coordinate with the Purchasing Department.
- Experience supporting equipment through fabrication, assembly, and factory acceptance testing (FAT).
- Ability to work hands-on with machinery during build, debug, and testing phases.

Cross-Functional Collaboration

- Collaborate with Account Managers and customers to define and refine system requirements.
- Support the Electrical Engineering team during equipment integration and testing.
- Work directly with production personnel to troubleshoot and resolve manufacturing or assembly issues.
- Partner with internal teams at all organizational levels to improve equipment designs and manufacturing processes.

Project & Documentation Support

- Maintain and update system and equipment drawings throughout the project lifecycle.
- Participate in equipment testing and validation at company facilities.
- Provide technical support for customer installations and field issues as needed.

Qualifications and Requirements

Education & Experience

- Bachelor's degree in Mechanical Engineering, Industrial Engineering, or a related field.

- Minimum of five (5) years of relevant mechanical design experience, preferably in industrial machinery, packaging, or automation.

Technical Skills

- Proficiency in AutoCAD and Autodesk Inventor; SolidWorks experience acceptable.
- Strong understanding of mechanical design principles, fabrication methods, and manufacturing processes.
- Working knowledge of mechanical components including bearings, gearboxes, actuators, pneumatic systems and structural framework.
- Familiarity with applicable machine safety standards (e.g. OSHA, ANSI, ISO) preferred
- Proficiency with Microsoft Office applications (Word, Excel, Outlook).

Professional Skills

- Strong interpersonal, organizational, and communication skills.
- Ability to work effectively in a team-oriented, fast-paced environment.
- Detail-oriented with the ability to manage multiple projects simultaneously.

Travel

- Up to 10% travel for vendor visits, customer support, and trade shows.

Physical and Functional Requirements

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The qualifications listed above represent the knowledge, skills, and abilities required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Compensation

Salary position; pay range commensurate with experience.

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