



JOB DESCRIPTION

Job Title: Design Engineer
Exemption Status: Exempt

Date: 7/7/20
Department: Operations

Job Specifications:

EDUCATION	4 Year Degree in Related Field Preferred
JOB RELATED EXPERIENCE	5+ Years Preferred
SUPERVISION GIVEN	None
SUPERVISION RECEIVED	Engineering/Design Manager

Job Summary: The Design Engineer develops and implements optimal cost-effective manufacturing processes and methods in accordance with product specifications, customer demands and quality standards.

Job Duties and Responsibilities include the following:

1. Thorough knowledge of all CNC, production and programming equipment.
2. Make prints; develop flat patterns and routers for production parts.
3. Develops models of parts using SolidWorks (sheet metal).
4. Develops and inputs CAD information into SigmaNest and inspection system.
5. Use and understand Global Shop System for data collection, work instructions, routers, and prints.
6. Update and optimize work orders.
7. Work with sales to develop processes for manufactured parts.
8. Assist sales staff with quotes and customer questions.
9. Confer with management and sales staff regarding manufacturing capabilities and other considerations to facilitate production processes.
10. Assists customers with the design process to develop their parts to fit our production processes consistent with our objectives to improve quality, cost and delivery.
11. Assist and train operators in interpreting prints, measuring parts to prints and engineering software.
12. Design and create jigs and weld fixtures.
13. Spec out and purchase production tooling.

14. Provide leadership, role model participation necessary to facilitate continuous process improvement.

Other duties may be assigned that pertain to the classification.

Qualifications:

To perform this job successfully, an individual must be able to carry out each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Knowledge & Experience:

- Minimum of either 2 years of Computer aided Drafting and Design experience, certificate or diploma in a CAD/CAM program or focused SigmaNest or SolidWorks training.
- CAD 2- & 3-dimensional software and computer proficiency.
- Machine tooling and fixture design.
- SolidWorks knowledge or experience is required.
- SigmaNest knowledge or experience is a plus.
- Microsoft Office knowledge or experience is a plus.
- Quality orientation and high attention to detail.
- Ability to work with vendors, customers and employees.
- Excellent interpersonal and communication skills.
- Ability to perform problem analysis and problem resolution.
- Must have ability to perform mathematical calculations and background in manufacturing processes.
- Maintaining up-to-date working knowledge of the industry products and services, especially Solid Works.

Physical Demands:

While performing the duties of this job, walking, sitting, and standing are required. Must have communicable range of hearing and normal sight with or without the use of aids. Office work environment with some plant floor exposure.