

Mechanical Designer

Purpose: The Designer shall create and dimension full 3D CAD definition of all assigned parts and assemblies. The Designer shall define full Bill of Materials (BOM) for all assemblies including all electromechanical interfaces and fasteners. The Mechanical Designer shall create production level mechanical prints for systems, sub-systems and other elements of machine product using Creo.

Essential Job Duties/Responsibilities:

- Generate 3D and 2D mechanical designs using Creo
- Generate production level mechanical drawings and electronic files for manufacture
- Specify materials, surface finish and components
- Prepares and releases production design documentation and quotation packages
- Provide technical support to analyze issues that occur in production, test and field deployment
- Provide technical support to engineering for prototype and development activities
- Implement document and change control on assigned designs
- Evaluates engineering test results for possible application to developments of systems
- Compiles and analyzes operational, test and research data to establish performance standards
- Provide technical information concerning manufacturing or processing techniques, materials, properties, and process advantages and limitations
- Conceptualizes, designs, and drafts parts for products and equipment
- Performs and documents tolerance analysis
- Utilizes geometric tolerances
- Adheres to industry and company standards for designs and documentation
- Follows company procedures for product design control and release

Essential Qualifications:

- Associate degree in mechanical design, drafting, CAD or equivalent
- 5 years of mechanical design experience
- Expertise developing 2D and 3D mechanical designs using Creo
- Selection of system mechanical components and materials
- Dimension and tolerance analysis
- Experience in mechanical drawings and electrical schematics
- Ability to define problems, collect data, establish facts, and draw valid conclusions
- Attention to detail with the ability to prioritize activities with minimal direction
- Microsoft Office applications including Word and Excel
- Organizational skills, records keeping with self-directed discipline
- Excellent written, verbal, and interpersonal communication and teamwork skills

Desirable Qualifications:

- Prior experience in 3D mechanical design of complex systems for automation, industrial or medical applications
- Prior experience in Solid Works & AutoCAD
- Experience in manufacturing environment
- Familiarity with machining processes
- Experience in Windchill PDM Link and INTRALINK.

Other Information:

This is a first shift position, working eight-hour shifts Monday through Friday. May require some overtime. Pay is dependent upon experience. Travel may be required occasionally (less than 10% of time).

To Apply:

Please submit a complete résumé and cover letter to:

Northfield Automation Systems, Inc.

ATTN: Human Resources

1325 Armstrong Road

Northfield, MN 55057

You may also choose to send your application materials via email to

hr@northfieldautomation.com or via fax to 507-645-5521.