



16185 National Parkway Lansing, MI 48906

eckhartusa.com

Phone: 517 321 7700

DESIGN ENGINEER

Department: Engineering
Reports To: Program Manager
FLSA Status: Exempt
Updated: 08.15.2018

Working at Eckhart is an opportunity to directly impact the future of American manufacturing. We are an Industry 4.0 leader committed to developing advanced manufacturing solutions that enhance the quality of life. Our AUTOCRAFT™ autonomous guided vehicles and FLEXCHECK™ collaborative robotic error-proofing systems lead the market in reliability and dependability. Our suite of solutions includes AGVs, collaborative & traditional robotics, 3D printing, conveyance & automation, highly engineered weld fixtures, lift-assist & ergonomic tooling, and mechanical & electrical engineering services. Our solutions improve employee safety, product quality, and productivity at the largest companies in the world.

Eckhart invests in people because we believe it is our people who differentiate our solutions and our company from our competitors. For over 40 years our company has committed dedicated creative minds to conceptualize and design custom manufacturing solutions for industry. Our customers span medical devices, food, consumer packaged goods, aerospace, automotive, industrial machinery, commercial construction, household appliances, and farm machinery & heavy trucks. We thrive solving our customers' most difficult problems and find satisfaction when customers receive safe and efficient turn-key solutions that enhance their quality of life.

Description

From ergonomic lift-assist solutions, that help manufacturers transfer raw material and large components to points of assembly in factories, to turn key fully integrated controls that empower manufacturing companies to identify parts, confirm work sequences, and monitor product quality, our team loves creativity and ingenuity. We work closely with our customers to ensure their design to installation experience at Eckhart is exceptional.

Our design team works with the largest companies in the world to transform how things are made. Having a passion for examining “the way it’s always been done” and seeking out a new and better way is a leadership trait we value. This role requires the application of engineering theories and related knowledge to design industrial ergonomic systems and automated tooling. Design Engineers must possess a working knowledge of mechanical principles and an understanding of 3D models, layout drawings, and engineering specifications. Design Engineers require the ability to work independently and at times manage small-scaled projects from start to finish. Our goal is to exceed expectations and ensure our customers receive an exceptional experience at Eckhart.

Essential Duties and Responsibilities:

- Complete 3D designs and assemblies for a variety of moderately complex to complex ergonomic and automated tools
- Review 3D models for safety concerns, accuracy and completion
- Work concurrently on one or more projects of moderately complex scope
- Analyze as-built tool design information and prepare design update plans
- Create 2D detail prints, field sketches and layouts as assigned
- Collaborate as a productive member on large projects
- Schedule activities to complete assigned tasks and projects, communicate and document requisite information per established Eckhart policies and procedures
- Understand customer needs, apply technical knowledge to identify process requirements, recommend and implement custom engineered solutions
- Demonstrate Engineering professionalism in all activities and provide efficient service to customers



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Qualifications:

- Technically proficient with various 3D software programs
- Strong working knowledge of mechanical principles, understanding of 3D models, layout drawings and engineering specifications
- Must be able to apply engineering theories and related knowledge to design industrial ergonomic systems and automated tooling
- Must be able to successfully communicate with internal and external customers who come from a broad spectrum of disciplines
- Must be able to learn, understand and apply new technologies
- Must possess planning and organizational skills
- Must be able to take direction and effectively complete tasks in a high-pressure environment

Education and/or Experience:

Prefer a four year degree in design, mechanical engineering, manufacturing or a related field, AND at least three years of related experience. Requires at least two years of experience managing multiple projects. Requires at least three years of mechanical 3D solid modeling experience and proficiency in NX, Solidworks, Catia, Creo, and AutoCAD. Must have basic knowledge and experience in Microsoft Office.