Senior Solidworks Mechanical Design II – Autonomous Guided Vehicles

Department: Engineering & Design
Reports To: Engineering Manager
FLSA Status: Non-Exempt
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Working at Eckhart is an opportunity to directly impact the future of American manufacturing. We strive to improve the lives of the men and women who partner with us by developing and integrating custom engineered manufacturing solutions that enhance life and contribute to improved safety, efficiency, and product quality for our customers.

Eckhart invests in people because we believe it is our people who differentiate our solutions and our company from our competitors. For over 60 years our company has committed dedicated creative minds to conceptualize and design custom manufacturing solutions for industry. Our customers span automotive, aerospace, medical devices, 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 from our team.

Description

The Senior Solidworks Mechanical Design II role involves applying engineering theories, real-world experience, and keen interpretation of customer needs to both configure our AGV models and design the custom load handling frames and other system components that they interact with. This role requires a working knowledge of mechanical principles and an understanding of CAD model design, manufacturing and assembly drawings, and product data management. Beyond the technical, an ability to communicate well with internal and external customers, through activities ranging from site visits to design reviews, is essential. This is a role that requires design leadership to effectively manage the scope of complex & highly technical projects. The ideal candidate is someone who has a passion for mobility looking to accelerate the adoption of Industry 4.0 advanced technology like autonomous guided vehicles and mobile robots while contributing to the growth of manufacturing in America.

Essential Duties and Responsibilities

- Design leadership with internal and external stakeholders to enable the adoption of mobility-based solutions for Eckhart customers
- Engage with senior executives and stakeholders at all of our customer sites to define scopes of work for future projects and establish robust design concepts early in the sales funnel
- Travel to customer sites with Project Managers to understand customer needs; Apply technical knowledge to develop system and process concepts in sketches and SolidWorks models
- Take an active role supporting Research & Development. Lead the design of new products supporting our 5-Year Product Roadmap enabling growth into new product lines & end markets
- Design & configure AGV models for specific customer applications utilizing a database of standards
• Create custom designs for load handling frames and other AGV system components
• Lead model integration for large systems involving AGVs, tooling, conveyors, gantries & test stations
• Schedule activities to complete assigned tasks and projects, communicate and document requisite information per established Eckhart policies and procedures

Qualifications

To perform this job successfully, an individual must have a passion for mobility & advanced technology. From artificial intelligence to blockchain, our design team’s passion for new ideas and innovation is a key enabler to ideating and creating robust solutions that differentiate Eckhart from our competition. Our senior designers are professional, proactive, and positive. They also have a passion for exceptional customer service and support is a must. The ideal candidate must have previous CAD modeling experience, with SolidWorks being the preferred design package. The ability to remain organized, driven, flexible, and personable in a fast-paced environment with changing schedules and customer demands is a requisite to success at Eckhart!