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CONTROLS ENGINEER

Department: Controls
Reports To: Controls Manager
FLSA Status: Non-Exempt
Updated: 02.15.2019

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

Eckhart is a premier market leading manufacturing solutions provider to Fortune 500 industrial manufacturers. 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.

A Controls Engineer is responsible to work within a project team to provide controls engineering hardware and software knowledge & direction to the organization through review, design, and communication. Our goal is not to meet expectations. Our goal is to exceed expectations and ensure our customers receive an exceptional experience at Eckhart.

Essential Duties and Responsibilities:

- Participate in design reviews at all levels; proposal, standards, project, etc.
- Analyze customer requirements and participate in proposal development activities.
- Manage technical solutions to minimize costs while maintaining reliability.
- Coordinate with other departments as necessary to satisfy project requirements.
- Provide industry specific application knowledge and direction.
- Develop project requirements and design specifications
- Maintain customer specifications and logging of deviations.
- Provide support for product development and support.

- Perform detailed system design, implementation and test.
- Participate in system startup activities.
- Diagnose problems with pneumatic and mechanical systems interfacing with electrical & electronic systems.
- Develop tools and integration strategies to increase effectiveness and lower cost.
- Investigate and suggest architecture and technology enhancements.
- Project tasks completed on schedule and under budget.
- Project tasks completed to specifications and checked for accuracy.
- Follow Eckhart processes and controls work level instructions.
- Controlled code incident management with minimal impact to customer's production.
- Product cost containment through improved engineered solutions.

Qualifications:

To perform this job successfully, an individual must be professional, proactive, and positive. Having a passion for exceptional customer service and support is a must. Being sensitive to the unpredictable demands and uncertainties associated with customer service is a requisite to delivering superior results and exceeding the expectations of very demanding customers.

Education and/or Experience:

- Associate's Degree and 4 years of robotics, controls, or engineering experience; OR
- Bachelor's Degree in Engineering and 2 years of robotics, controls, or engineering experience.

REQUIRED QUALIFICATIONS:

- 1 year of experience in automated controls systems and robot applications.
- Efficient using 2D AutoCAD to generate control system packages.
- Functional electrical maintenance and troubleshooting skills.
- Competence in industrial machinery controls design.
- PLC/HMI programming experience with an emphasis on Allen Bradley, Rockwell, and Siemens.
- Experience with different fieldbus architectures such as DeviceNet, Ethernet/IP, Profinet, Profibus.

PREFERRED QUALIFICATIONS:

- Robot programming experience primarily with Fanuc
- Functional experience programming VFD's and Servo controllers.
- Familiar with international standards (IEC, ISO, NFPA, NEC, UL).
- Familiar with Chrysler, Ford, and GM standards and specifications.
- Candidates must already have a work authorization that would permit them to work in the US.