



robotics.
innovation.
technology.

automation redefined™

www.demcoautomation.com

300 Commerce Drive
Quakertown, PA 18951

888.419.3343

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ELECTRICAL ENGINEER (Robotics & Automation)

DEMCO Automation is a regional leader in designing and constructing automated assembly systems for the medical device, electronics, pharmaceutical, automotive, and commercial-industrial industry, and defense sectors. We are located in Quakertown, PA, and searching for an Electrical Engineer (Robotics & Automation) to join our team:

Experience & Requirements:

- **Education** – BSEE, BSEET, or equivalent
- **Experience** – 2-4 years minimum experience in Industrial Control System Design, developing, and implementing control systems for capital equipment.
- **System Design & Documentation** – Create electrical schematics, control panel layouts, wiring diagrams, and P&IDs using CAD software
- **Engineering** – Experience in and ability to develop machine concepts, engineering calculations, time studies, prototypes, Proof of Concepts, feasibility studies, etc.
- **Hardware Selection** – Select and integrate automation components like sensors, robots, motors, and drives.
- **Commissioning & Testing** – Debug, test, and validate systems, both in-house and on-site at customer facilities.
- **Safety & Compliance** – Ensure designs meet industry standards, safety regulations, and quality requirements
- **Project Management** – Support project timelines, coordinate with vendors, and manage technical documentation
- **Component Familiarity** – Familiarity with pneumatic cylinders, sensors, transducers, motors, and other equipment-related components

General Requirements:

- Able to work in a fast paced, changing environment.
- Work in a team environment with customers, engineering, management, and manufacturing personnel to provide innovative solutions.
- Detail oriented, good math and communication skills.
- Ability to multitask, prioritize and organize.
- Punctual, professional, and work well in a team environment.

Roles & Responsibilities:

- Design and document various machine elements within custom automated assembly systems including areas such as control system enclosures and component panel layout, control system component selection and specification development, safety systems, motion control system selection, power distribution, I/O mapping and design, and other related activities
- Perform engineering calculations estimates, feasibility studies, prototypes and other development activities critical to creating a successful engineered system.
- Create and update Bill of Materials, Assembly Drawings, As-Built Drawings, and set-up procedures.
- Occasionally visit customer sites for design meetings, service calls, retrofits, or other activities.
- Communicate with customers and suppliers to relay design information.



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- Coordinate and lead projects through Engineering, design, manufacturing release, fabrication/assembly, test/debug, conditioning, FAT, and installation/service.
- Create and/or maintain project schedules as necessary.
- Work in an Applications Engineering role as required to develop technical descriptions costing, proposals, and other sales related activities.

Customer Service:

- Travel (fly and/or drive) on occasion to job sites for set-up, operations and removal of equipment.
- Interact with customers, suppliers, and other individuals inside and outside of the company.
- Diagnose and troubleshoot equipment-related issues both on-site and remotely.