



robotics.
innovation.
technology.

automation redefined™

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CONTROLS ENGINEER

DEMCO Automation is a regional leader in designing and constructing automated assembly systems for the medical device, electronics, pharmaceutical, automotive, and consumer products industries. We are located in Quakertown, PA, and searching for a Controls Engineer to join our team:

Experience & Requirements:

- BSEE, Computer Science, or similar technical degree
- 5-10 years minimum experience in equipment/machine design with a proficiency in control system design, programming, troubleshooting, and development.
- Design PLC and PC-based programs and electrical control system hardware for automated assembly systems.
- Create and modify CAD drawings and material lists including schematics, wiring diagrams, enclosures, assemblies, pneumatics, and other items related to automation systems.
- Experience in programming PLC, .NET, LabView, HMI, C-Based languages, Robot control environments, vision systems, etc. is required.
- Design of AC/DC control systems, analog/digital signaling, database software
- Develop and conduct DOE, Feasibility Studies, and Proof of Concepts for automated equipment and processes.
- Work in a team environment with Engineering, management, and manufacturing personnel to provide innovative solutions.
- Experience and/or working knowledge of pneumatics, bearings, slides, sensors, mechanical adjustments, dies, tooling, etc.
- Experience and/or working knowledge of drafting standards, tolerances, machined parts, etc.
- Detail oriented.
- Ability to prioritize and organize.
- Good analytical, writing, and communication skills.
- Ability to multi-task and perform outside of job description.

Roles & Responsibilities:

- Design and document various machine elements within custom automated assembly systems including areas such as control systems, robotics, safety systems, motor-driven actuators, servo motors, and other control-related subsystems.
- Specify commercial components and other pertinent design information.
- 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.
- 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.
- Test, debug, run, adjust and operate automation systems to prepare for customer acceptance and installation.
- Travel to the customer to install and/or service automation systems on an as-needed basis.