

## Electrical Controls Engineer - CT

Responsible for follow-up design details and PLC/Robotic programming from our NY Engineering group for custom highly sophisticated and technologically advanced Industrial x-ray Inspection Systems.

### **Job Description:**

- Work closely with the Mechanical and System Engineering teams both in CT and NY for the design of electro-mechanical and/or material handling systems.
- Implement and revise as needed control system PLCs and robotics.
- Finalize and revise documents using AutoCAD for Electrical.
- Generate, revise, and finalize BOMs.
- Work with Production for system integration and test.
- Provide support to Technical Writing and Project management Teams in the creation of technical documentation, system manuals, and customer facing documentation.
- Travel to customer sites as required in support of technical discussions, kick off meetings, oversee installations, or trouble shooting.
- Initial one week to one-month cumulative familiarization, training and hands-on work at the NY facility.

### **Essential Skills:**

- Bachelor's Degree in Electrical Engineering.
- 4 plus years of experience as a Controls Engineer with a strong background in industrial, automated machinery systems.
- Ability to work to schedules under time constraints in a dynamic environment
- Proactive, team player with established verbal and written communication skills.
- Experience generating detailed electrical design drawings, schematics and related documentation for electro-mechanical systems incorporating the use of robotics, PLC, automation and/or part manipulation.
- Prior experience in a QA controlled design environment. (ISO 9000, NQA-1, or similar) Must be highly organized and self-motivated
- Proficient with AutoCAD for Electrical.
- Knowledge of motor drives (Copley), PLC (Allen Bradley, Siemens) and PC based control system.
- Knowledge in control programming environments such as RSLogix, VB or other scripting languages
- Knowledge of CANbus, Controller Area Network (CAN) for real-time control system applications.
- Robotics programing (will send to training course if required)
- Knowledge of Pneumatic Actuator Control and Relay Logic
- Knowledge of Machine Guarding Systems and Power Distribution

- Knowledge of CE, UL, or other applicable regulatory guidelines or standards
- Must have experience in tuning and Integration of DC Drives, VFD's, Servo Drives, PLC's and PC based control systems.
- Strong mechanical and electrical aptitude and problem-solving abilities
- Ability to work to schedules under time constraints in a dynamic environment
- Experience working with and generating BOMs within an MRP or ERP system.
- Prior experience in a QA controlled design environment. (ISO 9000, NQA-1, or similar)
- Experience writing design specifications
- Must be highly organized and self-motivated
- Experience with Microsoft Office Suite of Tools
- Must be a US Citizen or US Permanent resident who is legally authorized to work in the US and able to successfully pass a background check and pre-employment drug test.

**Non-Essential Skills:**

- Understanding of applicable local, State, federal & EU codes and design requirements
- Experience with Robotics programming a big plus.
- Prior experience with NDT and or X-ray equipment