



Job Description: Process Automation Engineer

Roles & Responsibilities:

The primary role of this position is to design controls for a wide variety of machines and custom mechanical systems that will be built and tested within our manufacturing facility.

Common Technical Tasks:

- Assist project managers with user requirements review from an electrical/signal/controls standpoint
- Completion of Functional Logic Flowcharts and/or Functional Design Specification for equipment, in collaboration with the Engineering or R&D team
- Source controls system components for a given machine in order to create a complete Bill of Materials
- Design pneumatic/hydraulic circuits and complete line diagrams for equipment
- Complete Relay Ladder Logic and instrument loop diagrams (wiring diagrams) for equipment
- Design control systems for equipment and process solutions
- Write PLC code for equipment and control processes
- Testing/Debugging of control systems on equipment
- Integrate equipment with third party control systems and networks

Minimum Qualifications:

- Character: High standard of integrity, Team-focused, Customer Service Focused, Self-motivated, Strong sense of ownership
- Bachelor's degree in technical or engineering field
- 4+ years of relevant work experience with PLC programming, debugging, and testing
- Experience with Microsoft Office programs (Word, Excel, Outlook, Visio)
- Proficient with AutoCAD Electrical or other 2D CAD package
- Ability to understand and create P&ID drawings
- Familiarity with Allen Bradley PLCs or similar
- Experience with pneumatic systems
- Direct and proven experience in designing and using discrete logic circuits
- Direct and proven experience in designing and using analog circuits
- Excellent mechanical aptitude
- Excellent communication skills
- High attention to detail and organizational skills

Preferred Qualifications:

- 2+ years consistent use of LogixDesigner v30 or greater
- 2+ years consistent use of FactoryTalk View v10 or greater
- Direct and proven experience in setting up and debugging ethernet I/P networks
- Experience with Link I/O applications
- Experience with hydraulic systems
- Experience with touchscreen HMIs, VFDs, PLCs and I/O modules
- Experience with Plant PAX, phase, and block programming
- Experience with installing and wiring instrumentation
- Experience with bench testing control systems
- Experience with Autodesk Inventor or other 3D CAD package
- Willingness to travel (5%-10%)