Automation Controls Engineer Job Description

About Solara Automation

Solara Automation designs and builds custom automation equipment to give manufacturing companies in NC, SC and VA a competitive advantage in their markets. Our services include Systems Integration, Machine Design, Control Systems Development, Software Integration, Product/Process Development, Machining/Fabrication, Machine Vision and Robotics.

We seek engineering professionals educated or skilled in Automation Technology, Mechanical Design and Controls Integration. As a technology-driven company we desire individuals looking to challenge themselves to reach their full potential in a fast-paced environment.

Solara offers a comprehensive compensation and benefits package, with competitive base pay and bonus opportunities, superior benefits, a flexible work environment and opportunities for career development. Our engineers are involved in every phase of delivering quality work, on-time and on-budget in a strong teamwork-based culture.

Job Description

General Skills/Qualifications:
- MS Office (Excel, Word, Outlook) and general computer literacy
- Excellent written and oral communication skills
- Self-starter, team player, works well with others and has a positive attitude
- Creative thinker, results oriented, focused, and attentive to detail
- Able to prioritize, multi-task and meet deadlines
- Sharp, quick, dedicated and innovative problem solver
- Compatible core values and a drive for continuous self-improvement
- Organized, detail oriented, and able to think designs through completely

Experience/Education Qualifications:
- BA/BS degree in engineering or related discipline (BSEE degree preferred)
- 6+ years of experience in the automation industry
- Proficient in Design/Drafting Tools AutoCAD and SolidWorks
- Programming Logic Controllers (PLC) (e.g. Allen-Bradley, Omron)
- Configuring and designing HMI systems (e.g. Allen Bradley. PC)
- Familiar with Industry Standards UL and CE

- Familiar with various Motion Controllers/Actuators
- Experience and skill in troubleshooting control system issues
- Desired - experience with Vision System programming (e.g. Cognex, Keyence)
- Desired - experience with Robot programming (e.g. ABB, Fanuc)

Job Responsibilities:

Electrical
- Develop electrical design, schematics and drawings in AutoCAD
- Interpret mechanical design drawings for electrical requirements (e.g. SolidWorks)
- Research supplier products for assembly components
- Help establish new and maintain existing standards
- Develop electrical bill of materials
- Power up electrical systems and configure hardware per application specifications
- Check quality of assemblers/technicians work and assist during assembly
- Work with Sales Engineers to provide input with quote preparation as required

Software
- Design and develop software applications based on specifications or new concepts
- Understand client requirements for HMI/communication interface, networking and create specifications based on these requirements
- Review, modify and redesign legacy code (in-house and in the field)
- Troubleshoot issues with existing company installed systems
- Write user manuals to communicate functionality of company developed programs
- Technical writing including Software Documentation (e.g. Test Plan, Operating Manual with Troubleshooting Guide, Spare Parts List with Vendor Parts
- Requirement Reviews – Participate in reviews and work with Mechanical Engineering to ensure proper implementation of features

General
- Comply with the company safety procedures. Live the company culture of integrity, teamwork, self-discipline and professional competence
- Provide timely and detailed status updates, as required
- Quality – Ensure standards are maintained in a process driven environment
- Able/willing to travel and work at customer sites
- Available/willing to work overtime to meet project commitments, as required
- Involved in the Recruitment/Training/Orientation/ of new employees