

<b>Job title</b>	<i>Automation Controls Engineer</i>
<b>Reports to</b>	<i>Engineering Manager</i>

### **Job purpose**

The Automation Controls Engineer main purpose is to provide successful electrical design and controls programming based on automation project requirements.

### **Duties and responsibilities**

- Monitor, modify and write PLC programs (AB and B&R primarily)
- Develop electrical design, schematics and drawings in electrical CAD software and wire electrical control panels to meet project requirements.
- Program a control system using PLCs, motion controllers and HMIs.
- Diagnose and replace faulty electrical and electronic components.
- Onsite installation/commissioning of automation equipment.
- Interpret mechanical design drawings for electrical requirements (e.g. SolidWorks).
- Research supplier products for assembly components and develop electrical bill of materials.
- Power up electrical systems and configure hardware per application specifications.
- Check quality of assemblers and technicians work and respond to inquiries during assembly.
- Work with Sales Engineers to provide input with quote preparation as required.

### **Qualifications/Requirements**

- Associate's or Bachelor's degree in engineering or related discipline.
- 5+ years of experience in the automation industry
- Proficient in electrical design using AutoCAD Electrical or SolidWorks Electrical.
- The individual must be familiar with Vision Systems (e.g. Cognex, Keyence).
- The individual must experience with configuring and programming Allen Bradley, B&R PLC and HMIs and other automation equipment.
- Ability to read/understand mechanical, fluid power, and electrical principles and prints.
- Programming knowledge of robotics not required, but a plus.
- The individual must demonstrate attention to detail and finishing.
- The individual must exhibit flexibility of work hours to adjust to surge situations based on critical project or service requirements. The individual will need be able and willing to work overtime as necessary.
- The individual must be able to multitask, prioritize, show extreme resourcefulness and problem solving skills and perform well under pressure.
- The individual must be able to pass a drug test.
- The individual must be able to work both independently and within a team environment.
- The individual must be willing to travel. The work site may be located at various customer sites. This may involve airline travel but this is extremely rare.
- The individual must have clear, concise and accurate communications skills in English (both verbal and written).
- Independent personal transportation to office is required. Work vehicles are provided for travel to and from customer's locations and supplier sites.
- The individual must have experience with MS Office (Excel, Word, PowerPoint) and general computer literacy.

### Working conditions

- Regular hours will be between Monday-Friday 7:30am - 4:00pm.
- Office, shop, or customer manufacturing site environment.
- Ability to sit and work at computer for an extended period of time.
- May work near moving mechanical parts and equipment.
- May have to work where floors are slippery.
- Possible weekend, holiday or evening work as needed.
- Some travel required.

### Physical requirements

- Ability to lift and/or move up to 50 lbs.
- This job can involve sitting or standing for extended periods of time.
- The individual must have sufficient mobility, included but not limited to: bending, reaching, turning, kneeling, climbing stairs and ladders.
- The individual must be able to perform two-handed work.
- There is a possibility that due to parking availability and locations at end users, walking moderate to long distances at times may be required.
- Ability to walk up numerous flights of stairs/ladders and/or work in tight spaces in extreme conditions as needed.

### Confidentiality

- The nature of the position of Automation Controls Engineer gives it access to confidential data and in-formation about customers, technical data, projects, sales and cost records and others. The exposure to such information requires the employee to respect said confidentiality and to keep all such information in confidence.
- The Signing of this Job Description means the employee's acceptance of, and guarantee of compliance to, the company's policy for all such matters to be kept private. Any dissemination of information of a confidential nature to any person, inside or outside the company, has to be as previously authorized and/or indicated by the President.
- Any infringement to this policy may be pursued under the law.

### Acknowledgment

I have reviewed and understand the content of the above job description. I believe it to be accurate and complete and that I can successfully fulfill the responsibilities and obligations of the position. I also agree that management retains the right to change this job description at any time, within its scope, and after consulting with me.

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Employee's Signature

\_\_\_\_\_  
Date

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Immediate Supervisor's Signature

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Date

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*\*\*All job descriptions should be reviewed annually and updated as often as necessary\*\**