

AUTOMATION/CONTROLS ENGINEER

Job Summary:

The Automation / Controls Engineer is responsible for all electrical Motions and control systems for new machines as well as upgrading controls for existing machines.

The equipment designs are for semiconductor wafer wet surface preparation. Responsibilities include control systems, schematics, panel layout, motion control set-up and bill of material. The Engineer will write design specifications, generate required electrical prints and schematics, develop work layouts and write theory of operation/controls. Responsible to source motors, drives, robots, vision systems, sensors, servo controls, etc. for custom, automated systems for a variety of applications. Will be responsible for initial set-up, testing, and debugging.

Additional responsibilities will be to execute complete electrical designs, create professional electrical schematics, panel layouts, electrical bill of materials, ladder logic and/or technical manuals for manufacturing personnel and customers.

Job Knowledge, Skills and Abilities:

- Experience in robotics, automation systems, vision systems, proximity and photo sensors, servo controls, etc.
- Competent skills with PC's, networking, device communications, integration, and design.
- Working knowledge of AutoCAD Electrical, Promis-E, Elcad, or Solidworks Electrical for schematic generation. Working knowledge of AutoCAD for 2D panel layouts.
- Comprehensive knowledge of electrical component selection and panel layout design including materials, safety, and labeling practices.
- A track record of working with multiple platforms implemented in a variety of industries and environments is preferred.
- Excellent communication skills, both written and verbal, for working with customers and team members. Ability to effectively present information and respond to questions from employees, management, customers, and public.
- Must be a self-starter, organized and dedicated, with good record keeping skills.
- The individual must be able to investigate different types of hardware and control architecture to keep the machine designs current with the ever-changing technology.
- Knowledge in mechanical assembly a plus.
- Knowledge in Safety Code compliance (NFPA79, UL508) a plus.
- Understanding and ensuring compliance with the health and safety regulations and quality standards of the country in which work is undertaken;
- Identify both electrical and mechanical safety hazards and designs and directs the installation of machine guards and or interlocked electrical controls:
- Document and publish operations manuals.
- Support and/or assist electrical assembly technicians and field personnel as needed.

- Works with OEM suppliers and or component vendors to specify, develop and debug new products, production equipment and complete production lines as required to produce products that meet or exceed our customer's performance requirements:
- Travel requirements to vendors, customers, and/or offsite training: approx. 10%

Education and Job Experience:

BSEE or BSEET with 5+ years' experience in industrial automation and controls development and commissioning.

ASEE or ASEET with 10+ years' experience in industrial automation and controls development and commissioning.

Candidates with other degrees and appropriate experience will be considered. (Associates Engineering Robotics and Automation Controls or Associates Degree in Electronics)

Akrion Systems offers a Comprehensive Benefits Package including: Medical, Dental, Vision, FSA, Employer Paid Life, Disability, 401(k) and Paid Time Off