

JOB DESCRIPTION

JOB TITLE: Automation Engineer

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SUPERVISOR: Engineering Supervisor

DEPARTMENT: AMRE Automation

LOCATION: Reynosa RCS Plant

1. Purpose, scope, and challenges of Position.

- A. The Automation Engineer is in charge of controls systems design for process improvement, cost reduction and capital expansion projects. Is responsible to manage electrical and controls scope of assigned projects. Lead/participate in project teams and support automation projects assigned into the region by providing technical expertise to manufacturing and control equipment such as HMIs, PLCs, VFDs and electrical panels designing, installing, integrating and deliver controls documentation to different plants.

2. Responsibilities and tasks of the position.

- A. Design, install, integrate, maintain and improve control systems for automated manufacturing equipment
- B. Ensure installation and commissioning meet design and operation standards integration
- C. Design and improve HMI, PLC, Hardwire and Panel Layouts
- D. Create and/or update schematics using AutoCAD Electrical or other CAD software
- E. Troubleshoot control systems as needed electrical and pneumatic
- F. Provide guidance and train less experienced team members when required
- G. Develop and/or revise internal procedures to improve the effectiveness and efficiency of our processes
- H. Monitoring KPIs on compliance

3. Internal and External Customers.

- A. **Internal.**
 - a. Engineering, Production, Quality, Maintenance & EHS
- B. **External.**
 - a. Suppliers, Vendors

4. Competencies and Skill Requirements.

A. Education.

- ✓ B.S. in Mechatronics, Electromechanics, Electronic or Electrical Engineering
- ✓ M.S. in Mechatronics, Electromechanics, Electronic or Electrical Engineering is a plus.

B. Work Experience.

- ✓ 2 to 4 years of experience in similar role
- ✓ Knowledge of diverse manufacturing equipment
- ✓ Previous experience designing and building electrical control panels.
- ✓ Broad knowledge of industrial controls, instrumentation, panels, and automation systems for manufacturing and other process control applications
- ✓ Previous experience with automation and control products such as VFDs, PLC/HMIs, RTUs, and SCADA software
- ✓ Knowledge and experience with serial and Ethernet communications and protocols such as Modbus and Device Net
- ✓ Ability to program PLCs using ladder logic or other programming languages.
- ✓ Electrical design experience using AutoCAD or other CAD software.

C. Required skills.

- ✓ HMI and PLC design, configure and programming experience.
- ✓ Proven experience in use and/or administration of IMS systems.
- ✓ Experience with PID controls and control loop tuning functions
- ✓ Design and integration of safety controls systems for manufacturing processes.
- ✓ Equipment transfer, backup and change management of source code.
- ✓ Strong electrical aptitude and troubleshooting skills.

D. Nice to have skills.

- ✓ Knowledge of cable connectorization process and equipment.
- ✓ Vision systems programming and integration experience.
- ✓ Knowledge of MES, SCADA and PI systems is a plus.
- ✓ SQL, Power BI, Power Apps and data analytics skills are a plus.
- ✓ Understanding server management and network infrastructure.
- ✓ Project management skills.
- ✓ Fully bilingual (English / Spanish)
- ✓ Excellent interpersonal, verbal, and written communication skills.
- ✓ Highly organized and able to manage multiple tasks simultaneously.
- ✓ Use of manufacturing intelligence tools
- ✓ Innovation proposals for new technology introduction and understanding.
- ✓ Digital transformation and data analytics mindset, leverage AI tools to increase productivity.