

Control Panel Engineer

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Company: Emonics LLC

Location: United States

Category: production

Control Panel Engineer

Austin, TX

Fulltime

Job Description:

Participate in initial equipment conceptual development and carefully balance product specifications, process control requirements, component selection, control architecture, cost, limits.

- Design the system Power Distribution, control architecture and system field cabling/interconnect including Process and instrumentation.
- Design Power Distribution System using Eplan Electrical P8 CAD system. The design needs to meet the NFPA79, IEC 60204-1, UL 508A Standards
- Design Safety Interlock System including component selection using ISO 13849-1 requirement
- Implementation (UL1740, ISO 10218 compliant) control reliable safety systems for safeguarding robots, gantries, conveyors, and other high volume manufacturing equipment.
- Design Control System using Beckhoff, Siemens, Delta V and others PLC, IOs system, Motor control with VFD or Servo Controller and instrumentation sensors system to meet the system requirement
- Responsible to manage and direct technicians to implement electrical works
- Define system interconnect/schematic and Key control/automation components.
- Coordinate with peers in other engineering groups to ensure that the design criteria is

synchronized within all disciplines (System, Mechanical, Software, Process) to meet the requirements.

- Work closely with project managers and electrical team members to ensure all expectations and specifications are translated into the final design.
- Organize and manage vendor on control related deliverable to ensure meet regulatory, Tesla Standards and equipment specification.
- Execute, implement, and support Tesla Standards and Buy off process.
- Enforce application of Tesla standards, Manage suppliers during specification, design review, design approval.
- Handle the electrical system control and power related issues.
- Define Power and control requirements by working with System Engineer.
- Problem solving on any electrical design problem, issue and best practice solutions.
- Familiarity and hand on troubleshooting Power Distribution Design, I/O panel and Safety interlock circuit.
- Design electrical control schematic including Cable ASM
- Interface with mechanical team/vendors to support on Actuator/stage/motors selection.
- Interface with Software team to ensure the control architecture implementation are correct.
- Provide training to the equipment support and maintenance team
- Establish test plans and control test plan execution at Vendor and at Tesla facility during installation and buy-off

Requirements:

- Proficiency with Eplan Electrical P8 or higher on designing electrical control panel, control system wiring and instrumentation.
- Proficiency selecting appropriate circuit protectors, wire and cable, sensors, safety hardware, PLC hardware, remote I/O, VFD, industrial PDP components, servo systems, and key electrical control components.
- In depth knowledge of Electrical Standards (NFPA 79, UL508A).
- In depth knowledge of Safety standards (ISO 13849-1, ISO 10218).
- Familiar with Beckhoff, Siemens, Delta V, other PLCs for overall control system/components and has proven tracked record of previous projects implementation.
- Familiar with Safety machinery and process design as well as the applicable Standards
- Exposure to a wide variety of production machinery, industrial sensors, P&ID, and equipment utilizing.

- Experience creating technical specifications for automated manufacturing equipment is highly desired
- Required to work on C2D2 environment with PAPR respirator.
- Experience transitioning products and processes from prototype to production desired.
- Experience with chemical process control and industrial heating system is a plus

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