Controls Integrations Specialist

Job Scope

As a Controls Integrations Specialist, you'll play a crucial role in designing, implementing, and maintaining control systems that enable seamless communication and coordination between various devices, equipment, and software within an organization or industrial setting. Your expertise will be vital in optimizing automation processes, ensuring system efficiency, and maximizing productivity. You will be responsible for developing and installing control systems that not only meet the organization's needs but also comply with relevant regulations and industry standards. Additionally, you will troubleshoot and resolve any issues that arise with the control systems, ensuring minimal downtime and maximum uptime.

Responsibilities

- Control System Design: Collaborate with cross-functional teams, including software engineers, electrical engineers, and project managers, to design control systems that meet specific project requirements and industry standards.
  Integration Planning: Develop integration plans for connecting and synchronizing different control devices, machines, sensors, and software applications to create a cohesive and well-functioning automated system.
  PLC Programming: Programmable Logic Controllers (PLCs) are utilized to create, modify, and troubleshoot control logic for industrial processes, ensuring accuracy and reliability.
  HMI/SCADA Development: Design and implement Human-Machine Interfaces (HMI) and Supervisory Control and Data Acquisition (SCADA) systems to monitor and manage control processes efficiently.
  Testing and Commissioning: Conduct comprehensive testing and commissioning of control systems to validate their performance, identify issues, and ensure compliance with safety and quality standards.
  Troubleshooting: Respond to and resolve control system malfunctions, identify root causes, and implement corrective actions to minimize downtime and disruptions.
  Documentation: Maintain detailed documentation of control system designs, configurations, modifications, and troubleshooting procedures for future reference.
  Collaborative Support: Provide technical support and guidance to internal teams and external stakeholders during system installations, upgrades, and maintenance activities.
  Continuous Improvement: Stay up-to-date with the latest advancements in control system technologies, automation methodologies, and industry best practices to propose and implement ongoing improvement initiatives.

Requirements

- Bachelor's degree in Electrical Engineering, Automation, Mechatronics, or a related field. Master's degree preferred.
  Proven experience (typically 3+ years) in designing and implementing control systems and integrating automation solutions within industrial environments.
  Strong proficiency in PLC programming and HMI/SCADA development using industry-standard software (e.g., Siemens, Allen-Bradley, Schneider Electric).
  Familiarity with industrial communication protocols such as Modbus, Profibus, EtherNet/IP, etc.
  Solid understanding of electrical schematics, control panel design, and motor control systems.
  Problem-solving skills and ability to diagnose and resolve complex control system issues efficiently.
  Knowledge of safety regulations and compliance standards relevant to industrial automation.
  Excellent communication and interpersonal skills to collaborate effectively with diverse teams and stakeholders.
  Attention to detail and a proactive approach to ensure system stability and performance.
  Willingness to travel occasionally to different sites for system installations, support, or training purposes.