

Job Title: Controls Engineer
Full Time

Pay Type/FLSA status: Exempt -

Department: Operations-Controls

Supervises: No

Reports to: Controls Manager, Dynamic Design Solutions
Shift: Day/Monday-Friday/or as required

Dynamic Design Solutions (DDS), an Addtronics company, solves the manufacturing industry's most challenging problems with unique and creative solutions. Trusted by some of the largest and most influential manufacturing companies in the world, the DDS team of dedicated professionals delivers unique, high-quality, custom designed automation equipment. DDS also offers design and fabrication of all types of industrial tooling, especially highly engineered, complex parts, and assemblies. Located in Charlotte, NC, DDS has been a trusted partner within the manufacturing industry for over 25 years.

Position Summary: This position involves designing controls systems for automation machines, ensuring they meet project requirements, customer expectations, and DDS standards. The candidate should communicate project requirements, develop controls architecture, verify electrical design packages, and create designs that adhere to safety and standards. They will interpret internal cost sheets and develop plans that meet cost estimates, accurately report project status, achieve project milestones, and determine the cost of scope changes. The role also requires reviewing and evaluating new control-related products, recommending project-specific training, and following ISO 9001 procedures.

Essential Functions and Responsibilities:

- Document project related requirements/discussions and effectively communicate these requirements to the project team.
- Work with other members of the project team, internally and externally, to develop a controls architecture that provides the required functionality, based on DDS standards and customer specifications.
- Verify electrical design packages before release to the shop floor, based on adherence to accepted electrical codes, accuracy, completeness, use of standard materials, use of standard methods, and safety.
- Create and implement designs that are acceptable based on functionality and adherence to standards. Programs must be accurate, complete, and meet existing safety requirements before being released to the Shop team.
- Interpret and understand how to apply internal cost sheets.
- Develop plans to accurately produce results that meet cost estimates.
- Accurately report project status through regular status reports.
- Ensure that project milestones are achieved.
- Determine and document the cost of scope changes internally and externally.
- Review and evaluate new controls related products to provide cost effective and up-to-date control solutions.

- Recommend project specific training necessary to increase efficiency and improve engineering knowledge.
- Follow all procedures and work instructions as defined in the ISO 9001 Quality Management System.

This job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this position. Duties, responsibilities, and activities may change at any time with or without notice.

Qualifications Desired:

- BS Degree in engineering or equivalent experience (**Preferred**)
- Electrical Troubleshooting of Industrial Control panels and machines **REQUIRED**.
- 5+ years of experience as a Controls/Automation Engineer or equivalent. Industrial Automation (**Preferred**)
- 5+ years programming PLC's and HMI's using Ladder Logic. Allen-Bradley PLC (**Preferred**)
- Motion control of Servo's, Stepper motors, Induction motors using VFD's and Servo Drives. Allen-Bradley (**Preferred**)
- Design of Electrical Control Systems using CAD tools. AutoCAD Electrical (**Preferred**)
- Industrial Robotics Experience with multi-axis robots. Fanuc and Epson (**Preferred**)
- Demonstrated ability to effectively work with a team of technical professionals.

Nonessential Skills and Experience:

- Must be a team player with a positive attitude.

Physical demands and work environment: The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- *Physical demands:*
 - While performing the duties of this job, the employee is frequently required to stand; walk; sit; use hands to finger, handle or feel objects; reach with hands and arms; lift and carry items up to 50 pounds; climb stairs; balance; stoop and/or kneel.
- *Work Environment:*
 - While performing the duties of this job, the employee will work in an active mechanical assembly shop environment. The noise level in the work environment

can be minimal to high. Safe work practices are always required in accordance with OSHA regulations, DDS safety protocols, and customer safety protocols.

Position Classification

This is a full-time, exempt salaried position. Depending on the needs of the business, the ability to work more than 40 hours/week and/or weekends may be required.

Travel

Travel is required to customer sites as deemed necessary dependent on the project scope.

EEO Statement

It is the policy of Dynamic Design Solutions, LLC to provide equal employment opportunities to all persons. In accordance with anti-discrimination laws, it is the purpose of this policy to effectuate these principles and mandates. DDS prohibits discrimination and harassment of any type and affords equal employment opportunities to employees and applicants without regard to race, color, religion or belief, national, social or ethnic origin, sex (including pregnancy), age, physical, mental or sensory disability, HIV status, sexual orientation, gender identity and/or expression, marital, civil union or domestic partnership status, past or present military service, family medical history or genetic information, family or parental status, or any other status protected by the laws or regulations.