



HOPEWELL DESIGNS, INC.
ENGINEERING, MANUFACTURING, & SERVICE

Electrical/Software Engineer

Job Description:

Hopewell Designs, Inc. seeks an experienced Electrical/Software Engineer with strong expertise in electrical and software design, automated control system integration, and field service to design, integrate, install, and service our state-of-the-art automated calibration systems, irradiator equipment, and shielding products.

This role combines managing complex projects with the hands-on work of building control systems, developing HMI and PLC software, and overseeing equipment fabrication and integration.

The ideal candidate is a self-motivated, dynamic, and resourceful engineer who enjoys interfacing with customers to determine on-site design requirements and actively participates in the complete production cycle from initial design through final testing.

Duties and Responsibilities:

- Design and develop electrical panels focusing on safety, manufacturability, and maintainability.
- Interface with customers to determine design requirements at customer sites; such as electrical circuit loads, receptacle locations, conduit dimensions and routing and safety system components.
- Design and develop control system software for monitoring and control of various subsystems.
- Design and develop HMI user interfaces and PLC software.
- Oversight of equipment fabrication and integration.
- Participate in integration of systems and equipment prior to shipment, including electrical assembly and wiring, mechanical assembly, and testing of systems.
- Maintain awareness of the evolution of multiple projects at one time, to meet the key milestones of the production cycle.
- Technical writing of system and software specifications, system operation manuals, and project procedures.
- Travel for Customer-site installations and service/maintenance.(up to 30%)

Skills and Technical Experience

Required:

- Bachelor's Degree in Electrical Engineering.
- 5-10 years of experience in industrial automation, electrical and software design, or equivalent.
- Strong knowledge of electrical systems design, including drive systems, linear positioning systems, and pneumatics.
- Ability to read and understand mechanical drawings and schematics.
- Excellent verbal and written communication skills with customers, vendors, and staff.
- Experience in technical writing.

Preferred:

- Familiarity with the National Instruments LabVIEW development environment (NI certification is a plus).
- PLC programming experience (Panasonic FPWin Pro is a plus).
- CAD experience for electrical schematic generation (Solidworks Electrical is a plus).

- Knowledge of industry standards for industrial automation electrical panels (e.g., UL 508a, UL 60947, NFPA 70, NFPA 79, and/or CE) is desired.
- Familiarity with Quality Assurance programs.
- Previous experience in the nuclear industry, particularly in health physics, instrument calibration, or radiation shielding, is a plus.

About Hopewell Designs, Inc.

Founded in 1994, Hopewell Designs, Inc. is a national leader in manufacturing Automated Irradiator Calibration Equipment and a worldwide supplier of quality equipment for the nuclear industry. We are one of the world's leading companies in supplying calibration irradiators for radiation instrumentation. We also manufacture a broad range of Shielding and Storage products for the nuclear power, oil well logging, and medical industries. Our customers include the Department of Energy (DoE), Department of Defense (DoD), the National Institute of Standards and Technology (NIST), nuclear power plants, university research laboratories, and international calibration facilities.

We are a small, expanding company seeking a self-motivated, dynamic, and resourceful engineer to facilitate our growth. We offer a great work environment where innovation and creativity are rewarded and hard work leads to growth and responsibility.

Application

Qualified applicants should send resume with salary history to careers@hopewelldesigns.com.

NO PHONE CALLS! NO RECRUITERS!

Company:	Hopewell Designs, Inc.	Location:	Alpharetta, GA 30004
Salary/Wage:	Based on Experience	Status:	Full Time, Employee
Job Category:	Electrical/Software Engineer	Relevant Work Experience:	5-10 Years
Career Level:	Intermediate	Education Level:	Bachelor's Degree Electrical Engineering or Software Engineering Technology