



Job Title: Electrical Systems Engineer
Reports To: Engineering Manager, Product

Summary of Position:

This is a unique opportunity for the candidate looking to work on exciting new control systems in the cargo handling industry and grow their career in a company on the move. We are seeking to fill an Electrical Systems Engineer position to complement our electro-mechanical design team. The right candidate will have under their belt a proven record of hands on design work in the field of embedded electronic controls. This candidate will have mastered the phases related to requirements analysis, design and transition to production. The right candidate will have experience in and be able to quickly troubleshoot analog and digital circuits. The candidate must have a proven track record of leading other engineers, scope, and schedules. They will also be responsible for setting the standard of work for the manufacturing of the electronic components inside the plant.

Duties and Responsibilities:

The Electrical Systems Engineer reports to the Engineering Manager and works closely with the Business Unit Manager. The right candidate must be able to perform the following successfully:

- Take ownership of the existing product line at USCS and solve related electrical issues as they come up.
- Be able to conceive and select a control system architecture, including defining Line Replaceable Units (LRU's) interfaces and associated documentation.
- Be able to set the standard for high volume, high quality manufacturing of electronic assemblies.
- Participate and be "hands on" in the troubleshooting of electrical issues.
- Provide leadership on design of electrical components.
- All other duties as assigned.

Core Competencies:

- Commitment to company values and ethics.
- Dependability: personally responsible, completes work in a timely manner, and performs tasks accurately.
- Motivation: must maintain a positive attitude and strong work energy.
- Advanced computer proficiency.
- Analytical skills: must be able to gather information and use data to determine cause and effect for complex problem solving.
- Continuous learning: ability to learn new procedures and adapt to change.
- Creativity: makes constructive suggestions and creates novel solutions to problems; evaluates new technology as potential solutions to existing problems.
- Communication: excellent interpersonal and oral and written communication skills.
- Independent: must have the ability to carry out and follow through on tasks with minimal supervision.
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Core Competencies *continued*:

- Initiative: plans work and carries out tasks without detailed instructions, prepares for problems or opportunities in advance, undertakes additional responsibilities.
- Problem Solving: ability to develop and implement new ideas to improve processes.
- Project management skills.
- Strong judgment and decision making.
- Teamwork: works harmoniously with others to get a job done, responds positively to instructions/procedures, and works well with others.
- Time management: ability to organize and manage multiple priorities and effectively deal with tight deadlines and pressure.

Qualifications:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/or Experience:

Minimum: Bachelor of Science degree (B.S.) in Electrical Engineering from a four-year college or university.

Preferred: Master of Science degree (M.S.) in Electrical Engineering or related field of study

Minimum Experience:

- Experience in specifying or developing Interface Control documentation
- Experience the design of avionics components
- Work with the mechanical engineers to size electro-mechanical assemblies.
- Creation, review and approval of technical reports covering the following topics:
 - Electrical and Electro-Mechanical Drawings
 - Electrical Load Analysis
 - Discrete I/O interface requirements
 - Serial I/O interface requirements
 - Power Quality verification
 - System Integration
 - System and Equipment Specifications
 - Functional Hazard Analysis
 - Failure Mode and Effect Analysis
 - Fault Tree Analysis



Education and/or Experience *continued*:

Preferred Experience:

- Experience in performing System Safety Assessments per ARP-4761
- Experience in the process of developing of aircraft systems per ARP-4754A, or
- Experience in the process of developing hardware per DO-254, with direct experience in the certification process of Complex Hardware to Design Assurance Level A or B
- Experience in software development considerations process per DO-178
- Experience in developing EMC Control Plans at either the System or Equipment level per MIL-STD-461
- Experience in designing interfaces to serial data buses, including bus loading calculations
- Ensure the fidelity of requirement Validation and Verification for all projects
- Creation, review and approval of technical reports covering the following topics:
 - EMC Control Plans
 - Environmental performance verification and qualification

Physical Demands/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.

- Maneuvers in, around, under, and about factory and/or laboratory equipment on a regular and continuous basis
- Must be able to lift a minimum of 40 pounds
- Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus
- Travel required up to 15%
- Works at telephone answering equipment, design equipment, and at a PC for hours at a time

While performing the duties of this job, the employee may be regularly required to sit, stand, bend, reach and move about the facility. The environment characteristic for this position is an office setting. Candidates should be able to adapt to a traditional business environment.

To apply, submit resume: www.uscargosystems.com/careers/

Signature:

I understand that I am expected to adhere to all company policies and to act as a role model in the adherence to policies. I have read and agree that the contents of this job description accurately reflect my understanding of what is expected of me in this position.

Employee's Name: _____

Employee's Signature: _____ Date: _____