

JOB DESCRIPTION

POSITION: Electrical/System Engineer (5+)

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PRIMARY FUNCTION:

Architect and design PC-based equipment for the worldwide Aerospace industry. The candidate must possess a system level design perspective, with the ability to integrate a variety of sub-systems such as executive program control, application program operation, data acquisition, motor control, safety, and other related systems. Candidates must have experience architecting and designing hardware and software solutions, with a strong background in executive level software design and implementation of supporting data acquisition components. Candidates should have a broad range of experience in different data acquisition/control applications, such as electro-mechanical systems and hydraulic fluid systems.

Responsibilities:

- Use creative skills to architect world class solutions based on sound engineering practices and industry standards, and interpret or influence customer specifications.
- Lead technical efforts to design and develop the best cost/performance product that meets or exceeds customer requirements.
- Analyze and devise alternative solutions to a problem and propose the best resolution.
- Support significant design decisions by calculations, simulation, and prototyping. Critical specifications must have documented analysis demonstrating design compliance.
- Lead effective technical design reviews and contribute to improving design knowledge by thoughtful contributions at other's design reviews.
- Work with Drafting to create detail design package consisting of schematics, bills of materials, and assembly drawings.

- Work within the guidelines of the Avtron Aerospace design guidelines and Product Development Process.
- Investigate and implement new techniques to improve capabilities in regard to software development, engineering development, design for manufacturability (DFM), and design for test (DFT). Share advances within Avtron.
- Ensure equipment Acceptance Test Procedures (ATP) are prepared, and participate in the testing and troubleshooting phase as necessary.
- Create, or assist in the creation of, technical documentation (User Manuals) that effectively convey the required information to the end user.
- The job holder will debug electrical systems and support startup.
- Designing electrical systems for testing aerospace/industrial components
- Supporting test systems, including troubleshooting via phone/email
- Integrating software, electrical hardware, and mechanical interface

Education/Experience:

- Bachelor's Degree in Electrical Engineering or Computer Systems Engineering
- Proficient in Microsoft Office, Outlook, Word, Excel and PowerPoint
- Five or more years of experience including design and development of computerized equipment.
- Background in electronics and power electronics test
- Hardware experience including complex measurement systems design and integration; experience with multiple automatic measurement system architectures (GPIB, PXI, VXI, etc)
- Good understanding of basic measurement switching, high density signal interfacing, and standard practices to reduce electrical noise susceptibility and emission

Other:

- Must be able to communicate effectively, orally and in writing, with other team members, suppliers, and customers worldwide
- Must be flexible and have the ability to work well with others
- Must have the ability to multi-task in a fast paced engineering and manufacturing environment
- Ability to quickly analyze and troubleshoot complex hardware/software systems

- Ability to integrate hardware and software into a functional and reliable test system
- Ability to document and support a test system once it is fielded
- Ability to interpret OEM design and test documentation to determine test requirements and strategy
- Knowledge of AutoCAD
- Ability to create, review and approve engineering documents, drawings, procedures, bill of materials and specifications
- Strong organization and time management skills
- Practiced in diligently documenting all project activities accurately
- Must be detail-oriented
- Must be willing to travel

The above details describe the principle duties of an employee in this position, but are not to be construed as setting forth all the specific duties inherent in this job. Any employee is expected to perform other related duties when requested by their supervisor.

An employee is expected to observe and follow at all times the stated policies and operating procedures of the Company and to observe and follow all rules and practices of safety.

EOE – Equal Opportunity Employer. People of color, women, veterans and individuals with disabilities are encouraged to apply. (Compliant with the new VEVRRA and Section 503 rules)