

JOB DESCRIPTION

POSITION: Hydraulic/Mechanical Design Engineer

AUTHORIZED BY: Jason Kerst

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PRIMARY FUNCTION:

Researches, designs, and implements mechanical/hydraulic engineering solutions as defined by internal and external customers. Specific skill sets include, but are not limited to: 2D and 3D Part and Drawing Creation, Assembly Drawings, Bill of Material Creation, Costing Analysis, Structural (FEA), Thermal and Flow (CFD) Analysis, Part and Component Evaluation and Selection, Enclosure Design. A minimum of three year experience designing hydraulic systems, and an understanding of system level requirements, is expected. Candidate will apply knowledge of mechanics, pneumatics, hydraulics, safety, ergonomics and standards, to design world-class equipment, in a team environment.

- Understanding of design and development of fluid power test equipment
- Knowledgeable in the Mechanical/Hydraulic standards
- Certification in fluid power field is desirable

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 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 design for assembly (DFA), manufacturability (DFM), and 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.
- If needed, travel to customer sites for technical support or support for sales opportunities.

Education/Experience:

- Minimum of three years experience designing hydraulic systems.
- BSME, BS Aero Engineering, or equivalent
- Experienced in cross-functional design team efforts.
- Excellent technical writing and oral communication skills.
- Experience working with an international audience is a plus.
- Proficient in Microsoft Office, Outlook, Word, Excel and PowerPoint

Other:

- Excellent communication (verbal and written) and interpersonal skills with all organizational levels
- Must be able to multi-task and prioritize assignments quickly
- Must be flexible and work well with others in a fast-paced team environment
- Must be detail-oriented

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 VEVRAA and Section 503 rules)