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DEPARTMENT: Manufacturing
REPORTS TO: Engineering Manager

1.0 POSITION SUMMARY:

HABCO Industries is a key provider of products and services for the Aerospace Industry. A Lean focused, rapidly growing company that started in 1970 and has doubled in size in the last four years. HABCO serves commercial and military markets for both fixed and rotary winged aircraft applications. HABCO's customers range from the largest aerospace OEMs in the world to end users of the aircraft as well as overhaul and repair operations.

We are looking for a creative self-starting Mechanical Engineer to work on all product stages from research and development to design and manufacture, customer acceptance and after sale support. This position is for an experienced Mechanical Engineer supporting the Support & Test Equipment (STE) team. Primary tasks will be developing mechanical design solutions to a variety of problems including structures, pneumatics, hydraulics, tooling, fixtures and hands on troubleshooting.

Tasks will involve new designs or modifications to existing designs. The candidate will be expected to work collaboratively with mechanical, electrical, controls, software and manufacturing engineers. Additionally this candidate will support internal customers: sales, supply chain, manufacturing, and quality.

All mechanical structure and tooling designs are created in SolidWorks. The candidate must be able to use this platform or have existing experience with another solid modeling platform and be able to create solid models and sheet metal flat patterns from customer supplied 2D design packages. In addition to mechanical structure designs all hydraulic and pneumatic schematics are generated in AutoCAD 2D format. The candidate will also be required to produce data in report format to validate all critical designs prior to manufacture to support internal and customer review.

The responsibility of this position is managing specialized work efficiently, with above average attention to details. The position requires well thought out execution of proven design concepts combined with the ability to quickly adapt as conditions require. The person in this position will take work seriously, has a strong sense of duty, and is disciplined. The above must be managed in a faster than average work environment with numerous high-profile projects running concurrently.

2.0 PRIMARY RESPONSIBILITIES / DUTIES:

- Design of mechanical, pneumatic & hydraulic control systems.
- Determine use of centrifugal & positive displacement pumps and pump controls, pressure & flow regulators, heat exchangers and cooling systems.
- Determine line sizes & suitable plumbing.
- Select suitable structural steel considering material, size & shape.

HABCO is an equal employment opportunity and affirmative action employer.

All candidates must be a U.S. Citizen or currently have a Green Card to be eligible to work in our ITAR environment.

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- A working knowledge of flowmeters, pressure & temperature transducers, and pressure, temperature, level & flow switches is also required.
- Proficiency in AutoCAD2000 or higher, MS Access/Word/Excel knowledge required
- Create functional test requirements for equipment checkout & ensure proper calibration of control systems
- Final system documentation including creation of machine operators / maintenance manual
- Good communication skills
- Support the design, documentation, assembly, test & field support of industrial controls/systems
- Insure design compliance with mechanical standards for world-wide installation
- Create functional test requirements for equipment checkout and insure proper setup & calibration of mechanical systems
- Proficient with Mechanical Design of Test Equipment structures and assemblies
- Proficient Creating Cable Assembly Drawings
- Proficient with Parts Selection and Approval Process (Parts Standardization)
- An understanding of applicable ASTM standards is also required.
- Other duties and responsibilities as may be assigned or required.

3.0 MINIMUM QUALIFICATIONS:

(All qualified candidates MUST meet All of these Minimum Qualifications with No exceptions.)


- B.S. in Mechanical Engineering or equivalent experience
- 5+ years of related experience
- Knowledge of NFPA T2.24.1 R1-2000 Systems Standard for Stationary Machinery
- Knowledge of drafting standards Y14.5M-1994; Y14.38M and Y14.100M
- An understanding of applicable ASTM standards
- Knowledge of process control & measurement instrumentation including: pressure, temperature, level, flow, force and torque.
- Experience with program managing jobs
- Strong knowledge of MS Access, Word, and Excel
- Proficient in SolidWorks
- Experience with post order reviews
- This position requires use of information which is subject to the International Traffic in Arms Regulations (ITAR). All accepted applications must be U.S. Persons as defined by ITAR (U.S. citizen, U.S. Permanent Resident, Political Asylee, or Refugee).

4.0 PREFERRED QUALIFICATIONS:

- Master's Degree in Mechanical Engineering
- Knowledge of CE requirements

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- Knowledge of Lean Manufacturing, Kanban and 5S
- Knowledge of ISO9000 and AS9100 requirements
- Experience with 3D modeling simulation
- Familiar with Geometric Dimensioning and Tolerances
- Aerospace, hydraulic, pneumatic and/or machined parts manufacturing, engineering, cost, and/or procurement requirements knowledge/experience
- Familiarity/experience with lean manufacturing, Kaizen events, and continuous improvement techniques (i.e. RCCA, Six Sigma methodology), a plus
- Proficiency in Epicor 10 or strong knowledge of ERP systems
- Working knowledge of ISO-9001, AS9100

5.0 COMPETENCIES / OTHER: JOB CHARACTERISTICS

- Initiative
- Customer Focus
- Organizing Skills/Planning
- Priority Setting

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