Evan J. Loehr

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Core Competencies & Technical Skills

Continuous Improvement | Product Development/Manufacturing | Engineering Research & Development | Project Management
Vendor Management | Research & Presentations | Scheduling & Planning | Regulatory Compliance | Capability Development
MS Office Suite | 3D Modeling | AutoCAD | SolidWorks | Inventor | Visual Basic for Applications (VBA) |Preliminary Design Analysis

Education

Bachelor of Science, Manufacturing Mechanical Engineering Technology, 2018 | Texas A&M University
ETAC-ABET Accredited Program, Graduated with Honors

Professional Experience

Hudson Products Corporation | Beasley, TX **Mechanical Design Engineer, 10/21 – Present**

Create designs from client design criteria and provide stress calculations for air cooled heat exchanger pressure vessels using ASME and API standards. Ensure new and replacement designs can seamlessly integrate into existing processes.

- Ensure all designs pass ASME design calculations.
- Work closely with drafting to produce fabrication drawings, purchasing to make sure components used are correct, and proposals to better estimate job costs.
- Create extensive automated VBA workbooks to do office tasks more efficiently.

Hudson Products Corporation | Beasley, TX **Welding Engineer, 4/21 –10/21**

Facilitate successful product qualification and delivery through direct management of the welding consumables inventory. Establish relationships with shop management and vendors through daily communication. Leverage deep understanding of system problems to lead resolution activities. Draft Weld Detail Lists to align procedures with design details. Perform tests to develop new specifications.

- Gained extensive knowledge of ASME BPVC Sections VIII & IX.
  - Ensured adherence to ASME Sec. IX standards through welder and welding operator audits.
  - Proctored and verified welder and welding operations qualifications/continuity with ASME Sec. IX.
- Reduced overall risk by tracking the number and severity of welder defects to enhance in-shop welder training processes.
- Streamlined daily operations by creating templates to keep data organized.

Moore Control Systems, Inc. | Katy, TX **Mechanical Designer/Drafter, 9/18 – 3/21**

Served as point person and subject matter expert for the design, modeling, and drafting of fabrication drawings for pressure vessels, pressure vessel platforms, and skids. Conformed to ISO, PIP, and ASME standards in designing engineering project drawings, including P&IDs, PFDs, wiring diagrams, and wiring schematics. Created loop folders and diagrams to assist with instrument installation.

- Oversaw and audited drafting and modeling functions for special commissioned projects.
- Provided direct leadership to the drafting team responsible for designing, modeling, and drafting fabrication drawings for junction boxes and control panels.
- Developed simple macros and full Python applications.
  - Created a heat transfer calculator for control panel cooling needs, an automated calculator for rectangular tank design, and multiple metadata interfaces with the document control system API.
- Built an extensive vendor/supplier network to design and implement 3D CAD modeling of third-party process or power equipment.
- Saved the company thousands of annual manhours by identifying an area for improvement in data management processes.
  - Spearheaded the design, creation, and implementation of an object-oriented file management system to centralize project documentation. Educated and coached all personnel on proper use and execution.

Highlighted Projects

The Museum of the American G.I. | College Station, TX **WWII Ontos M501A Tank Restoration,** 9/16 – 12/16

Measured complex part geometry on a unique tank ratcheting lever using a coordinate-measuring machine. Utilized SolidWorks to generate a 3D solid model from the metrology; used the model to create NC code for the actual part using a 5-axis milling machine.