

First Last

address * phone * e-mail

OBJECTIVE

Self-motivated, detail-oriented, and adaptive individual looking to utilize seven years of Mechanical Design Engineering, Product Development and Operations experience in the oil & gas industry to transition into a new industry as a mechanical engineer.

SKILLS

- Product design and rapid prototyping
- CAD (AutoCAD, Inventor, Solidworks)
- FEA (ANSYS and Abaqus)
- Design for Manufacture & Design for Assembly
- System analysis and optimization
- Project management
- Value engineering/ cost analysis
- Root Cause Analysis
- GD&T and Tolerance Stack Up (ANSI Y14.5)
- Mathcad

PROFESSIONAL EXPERIENCE

COMPANY

Field Drilling Engineer, Sept 2018 – present

- Established KPIs and implemented new processes and procedures to improve operational performance.
- Created PFDs and P&IDs for approval of new drilling procedures and fluid flow routing.
- Monitored drilling parameters and downhole conditions to ensure safe and efficient project completion.
- Interfaced with third party vendors for procurement and operational procedures of drilling equipment.
- Tracked project costs and operational details for future project planning.

COMPANY

Senior Mechanical Engineer, March 2018 – Sept 2018

- Designed integrated pressure control and fluid systems according to industry standards and government regulations.
 - Created detail drawings, weldments, and assembly drawings for manufacturing according to API and ASME specifications.
 - Checked/approved engineering team detail and assembly drawings.
 - Conducted and documented equipment testing and commissioning.
 - Created procedures for rig up and rig down of rig pressure control and fluid systems.
 - Created an engineering standard to guide new designs of pressure control systems.

COMPANY

Mechanical Engineer, April 2016 – March 2018

- Designed integrated pressure control system for newly created Schlumberger Land Rigs group.
 - Researched government and industry standards and regulations (API, ASTM, ASME, ANSI, TRRC, BSEE).
 - Created Functional Design Specifications and material requirements for Pressure Control Systems
 - Created PFDs and P&IDs for optimization of high/low-pressure piping systems according to ASME B31.3.
 - Generated layout drawings to optimize rig site equipment placement.
 - Performed mechanical calculations for high pressure piping and structural supports.
 - Wrote procedures for and oversaw pressure testing of Pressure Control Systems.

COMPANY

Drilling Systems Engineer, Jan 2013 – April 2016

- Created general arrangement and detail drawings of Pressure Control Equipment for customer review and approval.
- Performed FEA and created design file for approval of newly designed high-pressure flange.
- Submitted four patent disclosures with two approved and two undergoing approval process.

EDUCATION

UNIVERSITY

- Bachelor of Science in Mechanical Engineering, Dec 2012

CERTIFICATIONS

- Passed FE Exam (June 2020). EIT application submitted.