

Senior Mechanical Engineer

ROBERT SMITH

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Objective

Senior Mechanical Engineer, 8+ years of experience in Oil and Gas, with extensive experience in tool and equipment design development. Strong Technical Expertise, Agile problem solver with advanced knowledge of mechanics, materials, and troubleshooting complex dynamic designs. Great command of engineering fundamentals and application of engineering design theories and principles. Skilled Project Management, Passionate leadership identifying issues and providing solutions.

Skills

Solidworks, Labview, Fortran, Programming PIC Microcontrollers, Setting Up NI Data Acquisition Systems, Planning and Leading Technology Demonstrations, Matlab, Microsoft Office, Autocad, Autodesk Inventor, Maple.

Work Experience

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Bayou Well Services - Pressure Pumping - April 2014 - 2019

- Operate as Technical Director to the Pressure Pumping Engineering group answering directly to the Engineering Manager.
- Overall responsibility for technical solutions at Corporate Engineering level.
- Tasked with maintaining and improving the overall performance of 150+ field-deployed well servicing assets.
- Devised internal specifications, designs for two complete service fleets, and met with various OEMs to layout production timelines and constraints.
- Provide technical direction and motivation to Design Engineers and Draftsmen with design reviews and regular project updates to affirm on-target developments and offer support and perspective to those lacking, and provide continuous momentum to long and short-term projects.
- Developed streamlined Engineering reporting processes for internal and external publication, and initiated a stringent document workflow procedure to facilitate smooth information transfer and ensure the high quality of all Engineering documentation.
- Final approval of Engineering design concepts and production drawings.

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Applied Research Associates, Inc - 2013 - 2014

- Im currently serving as the technical P.I.
- on three projects for the Air Force 1) developing a heat exchanger for air conditioner peak load shaving using thermal storage, 2) developing an energy efficient drop-in control system for air conditioners, and 3) developing an insulated hard floor for the Air Force small shelter.
- In this role, I supervise a small team to design and demonstrate the technologies while meeting project milestones and budget requirements.
- Also write monthly progress reports, and put together Power Point presentations that I use to brief the Air Force Project Managers every 6 months on progress.