

# ROBERT SMITH

## Associate Mechanical Engineer

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### SUMMARY

Certified Mechanical Engineer-in-Training with over 5 years of technical experience in piping design, including hydraulic calculations and stress analysis for a variety of applications, pump and compressor sizing, pressure vessel sizing and analysis, developing equipment and construction specifications, equipment selection and procurement, P& ID development, and vent/relief system analysis.

### SKILLS

Excel, CAESAR II, PIPE-FLO Professional, HYSYS, ISM, Solidworks, Auto Desk Inventor, Autocad, Pro E, Matlab, Microsoft Office, and Microstation.

### WORK EXPERIENCE

#### Associate Mechanical Engineer

ABC Corporation - March 2012 – August 2016

- Performed all aspects of engineering and procurement of a 3.2 million bbl storage terminal and jetty including the design of the fire protection system, pumps and manifold for complete flexibility, storage tanks and vessels, piping, truck loading and unloading station with additive blending, transmit and product recovery system, utility and instrument air system, and jetty refurbishment.
- Performed hydraulic calculations, pipe stress analysis, development of technical specifications, drawing review, equipment sizing and selection, review of vendor quotes, and generating technical reports.
- Provided quality control and checking of specifications and calculations.
- Performed pipe stress analysis with detailed recommendations and solutions.
- Performed vent/relief system analysis on various platforms to meet the requirements of the SEMS program.
- Responsibilities included determining overpressure scenarios, performing PSV capacity calculations, hydraulic analysis of relief headers, flare radiation/dispersion analysis, and sizing of flare scrubbers.
- Developed construction packages to close out open action items including PSV datasheets and IFC drawings for PSV deficiency mitigation.

#### Mechanical Engineer

ABC Corporation - January 2011 – March 2012

- Performed all aspects of material handling design projects including conveyor equipment analysis and design, equipment layout, equipment selection, and procurement, project management, cost estimating, and construction support.
- Developed detailed recommendations of material handling problems experienced by the end user.
- Improved manufacturing efficiency using lean techniques, analyzing and planning work flow, space requirement, and equipment layout.

- Reviewed failure analysis, conducted root cause analysis and identified many possible causes for an effect or problem and sorted the issues by using tools like fishbone diagram, etc.
- Maintained the traceability matrix to ensure the correct traceability of the functional requirements for investigations, change control and CAPA modules, created flow charts.
- Involved in developing and executing operation qualification (OQ) and performance qualification (PQ) test for the CAPA, audit and change control modules using the test plan and test lab modules identified failing condition and confer with senior technicians and engineers on appropriate data collection to assist with root cause analysis for dermatology products and oral suspensions assisted the production system engineers in improving a system of production control, standard operating procedures, safety, quality control, and training.
- Assessed buildability, manufacturability and integration capability of designing components in partnership with project engineers to ensure optimal quality of all deliverables.

## SCHOLASTICS

- Bachelor Of Science in Mechanical Engineering - 2006(University Of New Orleans - New Orleans, LA)Bachelor's in Jawaharlal Nehru - (University-Hyderabad - Hyderabad, Andhra Pradesh)Accounting - (Monroe County Comm. College)