**PROFESSIONAL SUMMARY:**

* Highly analytical, performance-driven engineering professional with 5 years’ experience creating innovative, cost-efficient designs
* Proficient at creating detailed mechanical drawings for piece parts and assemblies from Pro-E/NX models. Adept in maximizing form, fit and function through meticulous design model evaluation.
* Expertise includes using Finite Element Analysis (FEA) and DFM best practices and numerous CAD/CAE/CAM tools, ERP systems and database/data-storage programs
* Expertise in algorithm and code development using C++, Excel -VBA and python
* Presented a paper on “Optimization of high elongation Fiber Reinforced Elastomer composite” at student AIAA conference.
* Knowledge of ASME BPVC VIII DIV 1, API 14E, NACE MR075, API 618

**TECHNICAL SUMMARY:**

* Creo Elements/Pro, Unigraphics NX
* Structural & Thermal stress analysis
* Ansys, Python, Matlab, C++
* GD&T, Tolerance stack up analysis
* Design for Manufacturability (DFM)
* Thermoplastics & Elastomer

**PROFESSIONAL EXPERIENCE:**

**Zahroof Valve Inc, TX Nov 2015 – Dec 2016**

**Mechanical Design Engineer**

* Design and developed Zahroof Straight Flow (SF) valves for Reciprocating compressor using CREO 3.0.
* Managed all phases of the design process for a multitude of parts, assemblies and subassemblies, including drafting, Geometric dimensioning & tolerancing (ASME Y 14.5, ISO-2768 & ISO 1101), 3D prototyping and documenting results.
* Assisted in New product development (NPD) of Straight Flow conventional, hanging and unloader valves
* Performed stress analysis on metal housings and validated results using hand calculations
* Created User Interface (UI) and database for engineering calculation using PYTHON GUI and Excel
* Designed a 200-800 CFM capacity Flowbench with data acquisition capability to test SF valves
* Reviewed drawings for conformity to standards, specifications and accuracy of calculations.

**M&H Energy Services, TX Sept 2014 – April 2015**

**Mechanical Engineer**

* Developed PFD and P&ID for Processing Plants and NGL meter stations.
* Sized equipment, pumps and compressor and develop datasheets.
* Performed calculations to evaluate system and determined equipment sizing requirement.
* Evaluated technical bids and develop process simulation using ProMax.

**TCS | GE Power & Water**

**Engineering Consultant July 2012 – Aug 2014**

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* Provided support for mechanical design activities for new product introduction (NPI) with appropriate codes and GE design practices.
* Successfully designed a temporary scaffold service lift using OSHA and Euro code, in prototype environment
* Structural analysis of wind tower internal parts like platforms using FEA software.
* Created tools using macro Excel-VB for concept design of wind tower technologies for cost comparison using data analysis, curve fitting and trend lines.

**VK Networks, Arlington, TX Jan 2011 – July 2012**

**Project Engineer**

Client: A F Technologies, Nokia Siemens Networks

* Designed a harness board layout for an Intra-vehicular light military vehicle harness using Harness Expert 3D.
* Generated Sheet metal, machined parts and assemblies modeling to design electronic enclosures and box builds using Solidworks 2011
* Utilized Solidworks to design cabinets used for prototype base transceiver station (BTS) powered by hydrogen fuel cell.
* Spearheaded product testing for NEBS certification working with manufactures and testing lab, implementing design changes to adhere to GR 487 Telcordia specifications.

**EDUCATION:**

**Masters of Science in Mechanical Engineering** **August 2010**

Texas A&M University, Kingsville, TX, GPA – 3.60/4.0

**Bachelor in Mechanical Engineering July 2003**

Manipal Institute of Technology, India

**CERTIFICATIONS:**

Lean Six sigma, RigPass, HUET, Hydrogen Sulfide Awareness

Society of Subsea Underwater Technologies