

ROBERT SMITH

Principal Mechanical Engineer

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7+ years of experience as a Mechanical Engineer. Proven ability to perform multiple varieties of projects simultaneously. Excellent interpersonal, organizational and sound decision making, communication (oral and written) skills.

EXPERIENCE

Principal Mechanical Engineer

ABC Corporation - MAY 2013 - PRESENT

- Research, planning, and designing mechanical and electro-mechanical sub-systems like fuel, lube oil, cleaning, fire heat, and gas detection and suppression, air filter, hydraulic and acoustic and ventilation systems for gas turbine packages.
- Interpreting customer specifications and modify the standard design of the package to meet customer project specific requirements.
- Suggesting and specifying instruments suitable for customer specified applications and designs.
- Recommending design modifications to eliminate machine or system malfunctions develop and create cad solid models utilizing Unigraphics nx7. 5, using design for manufacturing (DFM) concepts.
- Creating a bill of materials, prepare and revise piping and instrumentation drawings (PID), electrical schematic drawings in plan and nx7. 5 participate and conduct design reviews of modified engineering sub-systems to ensure engineering requirements are met.
- Coordinating with the design/drafting group on the creation of models and assembly drawings of the package that will be used for unit assembly.
- Creating a system level (end product documents) drawings for customer interfacing.

Mechanical Engineer

ABC Corporation - AUGUST 2012 - MAY 2013

- Took ownership of technical/cost/reliability/performance requirements of the blower design to meet/exceed customer requirements.
- Performed design calculations, FEA, modal analysis, failure analysis by lifting lug analysis, containment calculations, vibration analysis, bolted joint analysis, shaft joint analysis, fit up, weld fatigue analysis, g&t tolerance stack-ups for various press and snap fits.
- Developed p- diagrams, fmea, sfmea, pfmea, dfss, dfr score cards, reliability allocation and validation qualification reports.
- Interact with engineering sub-systems and systems engineering, sourcing, supplier quality, supplier for technical needs, designers and

manufacturers.

- Wrote drawing change orders and interfaced with the drafting team for layouts, detail design, drawings, and change implementation.
- Designed tension test apparatus for blade testing for prototype and final blowers.
- This is Dummy Description data, Replace with job description relevant to your current role.

EDUCATION

- Master Of Science in Project Management - January 2015(Harrisburg University - Harrisburg, PA)Master Of Science in Mechanical Engineering - (Villanova University - Villanova, PA)Teaching Assistant - August 2010(Villanova University)

SKILLS

Adobe, APT Programming, C Language, C++, Mac OS, NASGRO (Crack Growth Analysis Software), NC Part Programming, Windows, XAML, HTML, and MS Expression Blend.