

Robert Smith

Staff Mechanical Engineer/Manager

CONTACT DETAILS

1737 Marshville Road,
Alabama
(123)-456-7899
info@qwikresume.com
www.qwikresume.com

PERSONAL STATEMENT

A highly effective Engineering Professional (dual US/Canadian citizen) with more than 25 years of experience, who meets challenges head-on and creates positive change. A creative and detail oriented individual with a record of success in management, engineering, and design/development. A strong leader with a solid technical foundation who develops and leads teams, while achieving outstanding results in fast-paced, dynamic business environments.

WORK EXPERIENCE

Staff Mechanical Engineer/Manager

ABC Corporation - November 2009 - July 2013

Responsibilities:

- Designed and developed of mechanical parts and assemblies per marketing requirements, UL, and FCC standards.
- Created 3-D models in SolidWorks to perform assembly interference checking and tolerances stack-up analysis per design intent and to generate STEP or IGES files for vendors on tooling design and CNC machining.
- Designed and created Mechanical Keep Out (MKO) drawings for EE team to design PCB layout and fabrication.
- Performed finite element analysis (FEA) for plastic parts in SolidWorks Simulation for design integrity and part optimization which reduced the design verification process from 8 to 3 weeks.
- Wrote test protocols and plans.
- Coordinated with lab technician to run tests and collect data for evaluation.
- Conducted DOE on enclosure cooling design and draw the best conclusion based on the experimental test data.

Staff Mechanical Engineer

Delta Corporation - 2008 - 2009

Responsibilities:

- Optima Ultracentrifuge - Eliminated a high-pitched noise that had been plaguing the drive design for many years.
- Used FEA and experimental methods in the optimization of this patented design.
- Optimized airflow for efficient cooling and quiet operation using CFD.
- Stiffened instrument frame to eliminate undesirable vibration using FEA.
- Characterized thermal performance of test chamber.
- Designed mechanical layout of motor drive inverter board.
- Analytical Centrifuge - Designed a new interferometer to replace one based on an obsolete camera.

SKILLS

Modal Analysis, FEA, NVH, Noise And Vibrations Analysis And Control Technologies, Sound And Vibration.

LANGUAGES

English (Native)
French (Professional)
Spanish (Professional)

INTERESTS

Climbing
Snowboarding
Cooking
Reading

REFERENCES

Reference - 1 (Company Name)
Reference - 2 (Company Name)