

ROBERT SMITH

Sr. Mechanical Engineer

info@website.com | <https://Website.com>

7+ years of experience as a Mechanical Engineer with a passion for product design and a focus on development activities in technically demanding applications.

JUNE 2013 - PRESENT

SR. MECHANICAL ENGINEER - ABC CORPORATION

- Designing sheet metal and machined parts and assemblies in SolidWorks for microwave (GHz-THz) devices with medical, energy, and communications applications.
- Research novel processes and fabrication techniques through academic and professional literature review.
- Evaluating electrostatic, thermal, and structural performance using finite element analysis and calculations.
- Developing potting encapsulation, braze, and leak check processes for electron beam device assemblies.
- Drafting drawings in SolidWorks for fabrication, assembly, and, including tolerance analysis, application of GD&T and functional dimensioning, and generation of multi-level bills of materials.
- Validating prototype assemblies through the design of experiment, execution, and documentation of testing.
- Compiling data outputs of experimental probes via Labview vi coding and perform statistical analysis.

MAY 2012 - JUNE 2013

RESEARCH ASSISTANT, MOLECULAR FOUNDRY - ABC CORPORATION

- Developed and utilized precise cleanroom nanofabrication processes and imaging techniques including SEM, XRD, ellipsometry, RIE, PECVD, an electron beam, optical, and thermal lithography.
- Curated and documented process development for GaN semiconductor growth for LED applications.
- Assessed measurement data to identify the impact of process parameter changes using custom Matlab GUI.
- Specifying MIL, ASME, ASTM, NEC, and other standards for material certification or fabrication techniques.
- Designed vacuum chamber retrofit using AutoCAD and delivered component models and multi-level BOM.
- Conducted interviews with adolescents and their caregivers.
- Coordinated follow-up mailing and telephone calls to ensure retention of study participants.

EDUCATION

BS in Mechanical Engineering - (University Of California, Berkeley - Berkeley, CA)
Bachelors in Mechanical Engineering - (Jawaharlal Nehru Technological University Hyderabad)
Accounting - (Monroe County Comm. College)

SKILLS

Solidworks, Auto Desk Inventor, Autocad, Pro E, Matlab, Microsoft Office, Microstation, Matlab, LabView, Simulink, SPICE3, Calypso Machine Shop: Traditional, Basic CNC.