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&amp;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.

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