

Guruprasad S. Shinde

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EDUCATION

University of Texas at Arlington (Graduating in spring 2016)

M.S. in Mechanical Engineering with focus in Micro-Nano fabrication and Electronic Packaging (Fall 2014 - present)

GPA: 3.5

Teaching Assistant for *Dr. Raul Fernandez* in Mechanical Design Project for Semester I & II

Lab Assistant at Institute Nano-Technology Research Center

University of Pune, India

Bachelor of Engineering, Production Engineering, May 2012 GPA_

First class with Distinction (73% A+)

WORK EXPERIENCE

Reliability testing of Electronic Packages

(Ongoing)

- Test reliability of the given custom printed circuit boards.
- Modelling and simulation of experimental results to verify the accuracy.
- Exploring properties of used materials in PCB to failure.

Clean room user

(Ongoing)

Shimadzu Center for Nano Technology Research at UTA (HAZCOM trained)

- Trained on OAI Front/Backside Contact Mask Aligner, ORION series metal deposition systems, Technics-Micro plasma etching.
- Designing in CAD and fabrication of Microstructures on Si substrates using UV lithography
- Finite element analysis of microstructures using ANSYS workbench.
- Ongoing training for CVD, SEM, E-beam writer.

Study of Potential applications of Nanowires for Dr. Cheng Luo

(Completed)

- Applications of ZnO nanowires in Fog collectors.
- Fabricated ZnO nanowires by liquid growth and VLS method to observe effect over present fog collectors.
- Silicon Nanowire fabrication to obtain high density Si nanowires.
- Micro-nano fabrication, Photolithography, Non-Photolithographic, PDMS molding, Nano fabrication approaches.

Effective cooling of Microelectronics Packages - Compact models for Dr. Dereje Agonafer

(Completed)

- Modified a PCB structure which has 6 DIP, 6 BGA, 9 TO-220, 2 PQFP type packages.
- Thermal testing of PQFP packages to modify the board and reduce temperature from 70° C to 32°C using Icepak simulations.
- Reliability analysis at micro-nano level to improve MEMS in ANSYS workbench.

Full time Job

(Jul/2012- May/2014)

Jr. Process Engineer at Budhale and Budhale Ltd. Kolhapur, MH, India

- Process refining and sequencing as per Advance Process Quality Planning of sheet metal.
- Member of CFT and worked in Multidisciplinary focus areas like designing in CAD, prototyping and tool selection for fabrication process.
- Key Projects: Air filters, power generator components.

ADDITIONAL

- Pro-E, Solid Works, Icepak, ANSYS, MATLAB, Flowtherm with introductory knowledge of similar design software.
- Quick learner, highly motivated team worker with excellent oral communication and written skills.