

SHIVANG DESAI

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ACADEMIC CREDENTIALS

Masters of Science in Mechanical Engineering (Thesis)

4.00 GPA

University of Texas at Arlington

(Expected Graduation May 2016)

Bachelors of Engineering in Aeronautical Engineering

3.90 GPA

Gujarat Technological University, Ahmedabad, India

(Graduation May 2014)

INDUSTRIAL EXPOSURE

Summer Intern, R_CAD Solution, Ahmedabad. Assisting the senior R&D engineer to simulate torque plate and steering knuckle in ANSYS Mechanical for strain analysis from 15th April to 15th August 2013.

Summer Intern, Jetwings Technologies, Ahmedabad. Working under Jr. design engineer on SOLIDWORKS as per manufacturer's requirement using Ansys standards.

ACADEMIC PROJECT

- **"Improved the thermal resistance of parallel plate heat sink for oil immersion cooling of open compute server" MEMS-Nano electronics LAB, UTA (Jan 2015 to on-going).** Developed numerical model to fix pumping power by changing mass flow rate at fixed pressure drop that is important parameter for parametric study. This model has been implemented on parallel plate heat sink for oil immersion and reduced thermal resistance was 22.5%.
- **"Improvement in Direct Evaporative cooling media water usage for Aztec cooling unit." MEMS-Nano electronics LAB, UTA (Jan 2015 to on-going).** Multiphase evaporative model was implemented numerically to improve water usage by changing different flute angle and weather condition. The design was experimented on Air flow bench which shown satisfactory water usage reduction compared to previous experiments.
- **"Cold Flow analysis of scramjet engine" GTU,INDIA (Spring 2014)** Reduced the thermal concentration at intake of scramjet engine by removing separation bubble by numerical analysis validating CFD model with previous study.
- **"Drag reduction of Blended wing body aircraft" GTU,INDIA (Fall 2013).** CFD analysis of BWB as per passanger and Mach number criteria and design changes to push sonic drag and tip induced drag further by 45.6%.

CORE COMPETIENCIES

Designing Software: SOLIDWORKS, AutoCAD, CATIA

Simulation Software: ANSYS (Icepak FLUENT, Mechanical APDL, CFX), LABVIEW, HYPERWORKS, Flowtherm

Programing Language: C, C++, MATLAB, FORTRAN 95

Documentation: Microsoft Word, Powerpoint

CERTIFICATION

- **Certified Solid works Associate**, License number- C-WFAA8UDQUB
- **Certified Six sigma green belt**, Licence number- 16431761215440

EXTRA CURRICULAR ACTIVITIES/ACHIEVEMENTS

- Graduate Teaching Assistant Scholarship, Spring & Fall 2015, University of Texas at Arlington
- **Most innovative student-2014**, Gujarat Technological University, India
- Event organizer and member of committee in **Prakhrsh**, India
- Industrial safety Trainings, Kaizen, 5S and First Aid Trainings.