

# Sruthi Errukula

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- OBJECTIVE** To pursue excellent knowledge in Mechanical/Thermal Engineering and to complete my thesis work with complete hard work and dedication.
- EDUCATION**
- University of Texas at Arlington**  
*M.S in Mechanical Engineering*  
GPA: 3.67/4.0, to be awarded December 2016
- Osmania University**  
*Bachelor of Engineering in Mechanical Engineering*  
GPA: 4.0/4.0
- COURSEWORK**
- |                          |                        |
|--------------------------|------------------------|
| Numerical Heat Transfer  | Mathematics            |
| Convective Heat Transfer | Fluid Dynamics         |
| Electronic Packaging     | Finite Element Methods |
- TECHNICAL SKILLS**
- Languages:** MATLAB, C, C++  
**Designing/Manufacturing software** - Auto CAD, SolidWorks, CATIA, ANSYS, CAM, ICEPAK, Space Claim, FloVent, Flotherm, Fluent, Ansys Workbench, 6sigma.  
**Certification:** ISTQB, QC  
**Tools/Applications:** PUTTY, WINSCP, LabView  
**Others:** Vision Plus modules (CMS, TRAMS, LTS, FAS, ITS, TRIAD, CDM, CTA); MS Office (Excel, Power Point, Word, Picture manager), Outlook, OS.
- PROJECTS**
- (UNDERGRAD)**
- DESIGN OF EXTRUSION DIE ON CNC LATHE (MINI PROJECT).**  
*Company* : NFC (Nuclear Fuel Complex), ECIL.  
*Tools Used* : CNC lathe.  
*Technology* : CAM (SIEMENS 840D/810D/802D).  
*Description* : Extrusion Die is designed more efficiently by using CNC lathe using CAM programming and also a computational design is made in SolidWorks.
- DESIGN AND ANALYSIS OF COMPOSITE SHELL AND TUBE TYPE HEAT EXCHANGER (Experimental and computational)**  
*Technology* : Filament winding technology in designing of composite shell  
*Software* : SolidWorks and Ansys  
*Technique* : Passive Enhancement Technique in improving performance of HE  
*Description* : Designed a composite shell and tube HE and applied passive Enhancement Techniques to improve effectiveness of Heat Transfer.

### ***DESIGN OF HEXAPOD***

*Company* : Chinmaya Micro Systems Pvt. Ltd.

*Description* : We applied basic principles of theory of machines and used batteries for working of this model.

### **PROJECTS (GRADUATE)**

#### **ENHANCEMENT OF HEAT TRANSFER IN AVIONICS BOX**

*Software* : ICEPAK

*Description* : Increasing Efficiency of cooling of the heat produced in Avionics box by adding more number of fans in series with each other

#### **MAGNETIC COOLING USING DIFFERENT MAGNETOCALORIC MATERIALS**

*Software* : FEMM, ANSYS

*Description* : Developing a FEMM and Ansys model of magnetic structure to simulate magnetic cooling effects and to obtain thermal cooling values for different magnetocaloric materials and deriving to a conclusion on which material fits perfect.

#### **DYNAMIC COLD PLATES FOR EFFECTIVE COOLING OF MULTI-CORE HIGH-END CHIP SCALE PACKAGES (experimental and computational)**

*Software* : 6Sigma ET, Ansys

*Description* : Developing adaptable, dynamic and practical cooling solutions for high power CSP's in data center applications and introducing flow control devices to promote smarter systems with improved performance and reduction of facility cooling power (Warm water cooling)

#### **CFD Study of Fences used for Reducing Wind Load on a MDC (Modular Data Center)**

*Software* : Flovent, 6sigma

*Description* : designing a perforated fence around the Modular Data Center to protect it from strong winds by reducing the wind speed (from maximum of 100mph to 10mph) using perforations on the fence

### **INTERNSHIPS/ WORKSHOPS**

**Digital Geography with Special Emphasis on Disaster Management-**workshop at **National Remote Sensing Agency- Indian Space Research Organization**, Hyderabad, India.

Internship at **NFC (Nuclear Fuel Complex)**, ECIL and assisted in design of modified efficient cutting tool for Lathe machine and used **SolidWorks** for designing.

Attended **ANSYS Regional Conference at Houston 2015** and got a good opportunity to learn more about ANSYS new advancements and attended workshops related to them.

**EXPERIENCE****Capgemini Pvt. Ltd., India** (From Jun 2013 to Dec 2014):

*Testing Engineer:* Worked for Discover Bank and Capital One Bank Clients under Credit Card domain. Preparation and Execution of Test Scripts Defect Tracking and Analysis, Updating Daily Status Report and tracking Data handling, Quality Assurance, Customer support testing, test document writing, document review.

**MCC (MVSR Campus Connect), India** (NGO; From 2009 to 2013)

*Human Resource member:* of the Organization and involved in recruiting new members into the team including processing and sorting the forms and maintaining data of all the members in all the teams.

**University of Texas at Arlington, Arlington, TX** –Fall 2015

*Data Entry Assistant:* Entering and maintaining database of Undergraduate students of UTA.

**MEMBERSHIPS**

American Society of Mechanical Engineers (ASME), member, 2015  
EMNSCP, member, 2015

**ACTIVITIES**

Yoga, Software Testing tutor, volunteering in college events