

# Manasa Sahini

930 Benge Dr., Apt. 301A  
Arlington, TX 76013

Contact No: 817-692-2949  
Email: manasa.sahini@mavs.uta.edu

---

## Objective

Internship position as a mechanical/thermal engineering graduate student

## Summary

Over eighteen months of experience as a Graduate Research Assistant focusing in thermal analysis of server/ rack and telecommunication equipment cooling. Graduated with a bachelor's degree with 4.0 GPA. Undergraduate gold-medalist for excellence in academics. Energetic, hard-working, and eager to learn new things.

## Relevant Classes

- Advanced Classical Thermodynamics
- Control Systems Components
- Convection Heat Transfer
- Cooling in Electronic Packaging
- Fluid Dynamics (current semester)
- Heat and Mass Transfer
- Thermal Conduction

## Work History

Hardware Engineer Intern at Baidu Research and Development center May 2015-Present

- Currently working on developing CFD models of Baidu's Data centers in China
- Focused on building the detailed modeling of server and rack
- Evaluation of the IT equipment for its flow and thermal characteristics

Graduate Research Assistant Sep 2013-May 2015

- Team lead on projects related to server/rack level liquid cooling in Data Centers
  - Stress testing servers and data analysis
  - Perform test set up-preparing PCB boards, setting up communication between server and work station etc.
  - CFD modeling of server components
- Conduct teleconference meetings , present weekly reports to industry mentors
- Led a team in a project related to thermal modeling of telecommunication equipment

Graduate Teaching Assistant Jun 2013 - Aug 2013

- Worked under Professor Ray Wimberley to assist him with academic work related to grading homework and maintaining records related to class work

## Education

BS to PhD Degree in Mechanical Engineering Aug 2012 - Present  
University of Texas at Arlington  
GPA: 3.56

Bachelors of Technology Degree in Mechanical Engineering

2007 - 2011

Jawaharlal Nehru Technological University

Vizianagaram, India

GPA: 4.00

### Relevant Skills

- Team lead and player
- Hard-working
- Confident
- Enthusiastic
- Communicative
- Sociable

### Technical Skills

- AutoCAD
- MS Excel
- 6SigmaET v9.0
- Mathematica 9.0
- 6SigmaRoom
- MATLAB R2012a
- v9.0

### Conferences/Symposiums

- Attended conferences:
  - ASME InterPACK International technical conference July,2015  
San Francisco, CA
  - NSF Industry/University Cooperative Research Program (I/UCRC) ES2 meeting  
Arlington, TX April 2015 ,Oct 2014 and Oct 2012
  - Data Center Dynamics Fall 2013 Conference  
Dallas, TX Dec 2013
  - 7x24 Exchange Fall 2013 Conference  
San Antonio, TX Nov 2013

### Publications

- **Sahini, M.** and Gebrehiwot, B. "Thermal Modeling of Remote Radio Head Units." ASME International Technical Conference and Exhibition on Packaging and Integration of Electronic and Photonic Microsystems (InterPACK), San Francisco, CA 2015.
- Fernandes, J., **Sahini, M.**, et al. "Evaluating Liquid Cooling at the Rack: Comparing Distributed and Centralized Pumping." International Microelectronics Assembly and Packaging Society (iMAPS). Las Gatos, 2014.

### Membership

- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), Dallas Fort Worth chapter
- Society of Women Engineers (SWE) , UTA chapter

### **Extracurricular Activities**

- Class representative for the mechanical engineering batch in 2010
- Volunteered as Sponsor Committee member during JNT University national level technical event in 2009
- Participated and won elocution competition in “Influence of Corruption in India” in (2009)

### **Awards**

- Awarded Gold Medal for securing first rank during 2007 - 2011 in mechanical engineering at the third convocation of JNT University
- Awarded scholarship for securing academic distinction from Andhra-Pradesh Police Department in 2008 and 2010
- Awarded a scholarship and offered certificate of merit for securing first rank in academics during third year of undergraduate degree (2010)