

## KOTA VENKATA NAGA INDU SRAVANI

402 kerby street, Arlington, Tx-76013

Phn: 817-897-3502

Email: indu.sravani@gmail.com

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### EDUCATION

#### Master of Science in Mechanical Engineering

University of Texas at Arlington, Arlington, TX

GPA:3.00/4.00

(Graduated December 2015)

**Coursework :** Finite Element Method, Advanced Finite Element Methods, Control System Components, Production and Inventory Control, Fundamentals of Sustainable Energy, Convective Heat Transfer, Radiative Heat Transfer,

#### Bachelor of Engineering in Mechanical Engineering

J.B. Institute of Engineering and Technology, Hyderabad, India

Distinction

August 2009 to May 2013

### ACADEMIC PROJECTS

**Project Title:** "Accelerated Thermal Degradation Testing of Printed Circuit Boards in Mineral Oil Immersion Cooling Systems"(Final Graduate Project)

**Description:** Analyzing the material properties of Printed Circuit Boards (PCB) in mineral oil immersion cooling system for reliability evaluation.

**Project Title:** " Study on Cogeneration of Energy using Bagasse" (Study project - Undergraduate)

**Description:** Studied and analyzed the generation of electricity using the wastage obtained after processing sugarcane called as 'Bagasse' which was done at NSL Krishnaveni Sugars LTD.

**Project Title:** " Design and Fabrication of a Stair Climbing Wheelchair" (Final year Undergraduate project)

**Description:** Design a wheelchair that climbs stairs using specially designed Y framed rear wheels taking its power from the motor drive.

**Project Title:** " Design and Fabricate an off road All Terrain Vehicle"(Undergraduate project)

**Description:** Design and fabrication of an off road recreational vehicle which can move on any terrain and this was done for the BAJA 2K12, conducted at NATRIX facility of NATRIP, Indore by BAJA SAE.

### INTERNSHIPS

**Done at:** Mercedes Benz

**Duration:** May 2012 to July 2012

Learnt about the Mercedes working mechanism and its smart technology and also gained knowledge about various cars at Mercedes with live examples and have worked with the same under the supervision of a trainer.

### SKILLS

**AUTOCAD, PRO/E, CREO, CATIA V5, ANSYS Fluent 15.0, SOLIDWORKS 2014, MATLAB, WORKBENCH 15.0, Microsoft Office, Experience in Turning, Welding, Milling operations.**

### ACTIVITIES

#### GRADUATE

Worked on the experiments done on IT equipment immersed in mineral oil using immersion cooling method and exploring the methodology for oil immersion cooling which is different to air cooling as a member of the EMNSPC team at The University of Texas at Arlington (May 2015-Nov 2015).

Presented a Poster on "An In-Depth Understanding of Oil Immersion Cooling Strategies for Data Centers" at ES2(Center for Energy-Smart Electronic Systems), an Industrial Advisory Board Meeting at Georgia Tech University, Atlanta.

Submitted a paper on " Oil Immersion Cooling Strategies for Data Centers" for the SEMI-THERM 2016.

Submitted a paper on "Accelerated Thermal Degradation Testing Of Printed Circuit Boards and Packages in Mineral Oil Immersion Cooling Systems" for the ITherm 2016 ( The Intersociety Conference on Thermal and Thermo-mechanical Phenomena in Electronic Systems).

Co-Author for the paper on " Thermal Degradation of Electrolytic and Polymer Capacitors and Electronic Resistors for Use in Mineral Oil Immersion Applications" and submitted for ITherm 2016.

#### UNDERGRADUATE

Organizer for the college level event "INXS" -2010,2011, 2012.

Committee member and Vice-chairperson of SAE INDIA JBIET Board 2012-2013.

Organizer for the national level AUTO-TECH FEST 2011,2012 by MAHAVIR Group, MERCEDES BENZ, TOYOTA.

Advisory committee for SAC(Student Activity Centre) JBIET Board 2012-2013.

Chief organizer for college level technical events conducted by SAE(Society for Automotive Engineers) 2010,2011.

Organizer and as well as participant for Blood Camps 2010 and 2012.