

## Udayasarathy Arcot Vijayasathy

503, Cherry Street, Apt # 118,  
College Station, TX 77840

Email: u\_sarathy@neo.tamu.edu  
Phone: (979) 204-3977

### Objective

Seeking challenging career in Mechanical field, which would improve my skills as a professional and my attributes as a person, and help contribute to both Organization and Personal growth.

### Education

Master of Science (**Mechanical Engineering**)

*Start: Fall 2005- Spring 2007*

- Texas A&M University
- GPA of 3.50

Bachelor of Engineering (**Mechanical Engineering**)

*2000- 2004*

- R V College of Engineering, Bangalore, India.
- GPA of 4.00

**Research** : Mercury emission control techniques for coal fired power plants

**Place** : Renewable Energy Lab, Texas A&M University

**Period** : Nov 2005 (on-going)

**Abstract** : This project involves validation of techniques used to control mercury emissions from coal fired reactors. The main idea behind being co-firing of coal with bio-mass.

### Academic Projects and Seminar

1. **Title** : Design of hydraulic control line for well completion  
**Place** : Schlumberger, Rosharon and Texas A&M University  
**Period** : Aug 2006 (ongoing)
2. **Title** : Feasibility study of a cogeneration system for a plastic card manufacturing firm  
**Place** : Texas A&M University  
**Period** : Aug – Nov 2005
3. **Title** : Analysis of Torque sensor for Garrett Turboprop engine  
**Company** : Enigne Assembly & Overhaul division, Hindustan Aeronautics Limited, Bangalore  
**Period** : Feb-May 2004
4. **Title** : Dynamic Analysis of an Automobile Bracket  
**Company** : RVCE, Bangalore  
**Period** : Feb-June 2003

#### Seminar :

Energy conversion from waste - This seminar was presented at Mechanical dept, Texas A&M University, 2005, on latest technology used in conversion of waste materials such as scrap tires, municipal waste and chemical waste into useful energy.

Application of Neural Networks in Industrial Robotics - This seminar was presented at RVCE, India, 2004, on fundamentals of neural network, and the application of neural networks in mechanical industries, in this case study, its impact on Industrial Robotics.

### Industrial Experience:

#### L&T Ltd.

*August 2004 - March 2005*

Job title: Graduate Engineer Trainee

Job profile: Served for marketing services department at Audco India Limited (L&T Valves manufacturing division) where the duties involved project co-ordination, overall project monitoring, approval of engineering assembly drawings, interaction with customers for order of new valves, status reporting, feedback, data entry and SAP system manipulation. Also played a prominent role in interaction with the R&D for optimization of the design, by information given by shop floor and customer requirements. Conducted training programs for customers and new field engineers.

### Relevant Skills and qualifications:

- Software Tools:
  - Solidworks, AutoCAD, ANSYS, EES, Thermolab, Capsmill and Capsturn, FORTRAN, C, MATLAB, SAP, Photoshop, Dreamweaver
  - MS Office (Regular use)
  - Familiar with the commonly used softwares through regular use
- Computer hardware:
  - Familiar with computer hardware through academics and personal use.

### Work Authorization

International student eligible for Practical Training in USA