Saravanan Dharmalingam

Design Consultant

Bangalore, Karnataka, 560034

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A research of experience of 9 years at IIT Kanpur in Unsteady Aerodynamics lab during PhD (in Aerospace Engineering department with 3 years as Senior Research Associate) with also an experience in experimental aeroacoustics, a teaching experience of 5 years and a current Industrial experience of 5 months with a total experience of 14 years 5 months at various private colleges in the departments of Mechanical and Aeronautical Engineering and guided the students for research projects at both UG and PG level.

Skills

- Experimental Skills
- Able to conduct PIV for high speed flow experiments
- Lab View
- Software Skills
- MATLAB - Graphs & Contours , Numerical Analysis, Image Processing
- LATEX - presentations & writing research journals, books etc.,
- Microsoft Power Point: Animation Skills
- CREO
- GEO Gebra (Mathematical concept animation)
- C and C++

Work History

2020-08 - Current

Design Consultant

VEL diligence, Trichy, Tamil Nadu

Project 1 : Stewart Platform with 6 DOF

- An U.S. based company in Chennai gave their requirement in hand sketch.
- The Stewart platform is a universal design which makes the base to act with 6 DOF.
- Instead of testing the dozer with sensors outside, the company could check the same inside (mainly in the electrical actuators) with the use of this simulator.

Project 2: Rotating Tray

- Client asked to redesign the existing machine for new load condition.
- Existing machine's each tray can carry 250 kg.
- New machine should carry 500 kg but at the same time it should deflect less than 10 degree.

2019-04 - 2020-08

Associate Professor

MVJ College of Engineering, Bangalore, Karnataka

Responsibilities:

Research Coordinator

- Encouraging and guiding the other faculties to publish in journals of Scopus indexed and web of science.
- Preparing for NBA from the published list of journals and project proposals in the department.
- Encouraging and receiving the project proposals and finally reporting and discussing with the senior retired scientist of ISRO.

UG Project Coordinator

- Conducting Project review for students.
- Giving training on ‘EXCEL' and fundamental coding on ‘MATLAB' and plotting.
- Giving student seminars on writing a project report in word and LATEX for both UG and PG.

Other activities

- Coordinator of the Innovation cell for faculties.
- Coordinator of the Idea box for students.

Syllabus and Question Setting

- Framing the syllabus for autonomous courses and question setting to VTU.

FDP Conduction

- One Day Faculty Development Program on 'LATEX'

Subjects and Labs Handled

- Aerodynamics-I and II, Thermodynamics, Fluid Mechanics and Helicopter Dynamics.
- Aerodynamics and Fluid Mechanics lab

Research activities:

Client: CSIR-NAL, Design and Numerical Analysis of Slinger Combustor (done as M.E. Project).

UG Project: Subsonic Jet noise mitigation using Chevron Nozzle configuration.

2017-01 - 2019-03

Associate Professor

Jansons Institute of Technology, Coimbatore, Tamil Nadu

Research Activities:

UG Project:

- Successful Fabrication and assembly of a Hexapod Robot.

FDP conduction:

- One Day Internal Faculty Development Program on 'LATEX' conducted 23rd November 2018 for writing research papers, Books and articles.

Responsibilities

- Research Coordinator
- UG Project Coordinator

Other activities

- Coordinator of the Research proposal promotion cell for faculties.

2006-07 - 2007-12

Lecturer

Hindustan College of Engineering, Kelambakkam, Tamil Nadu

Education

2008-01 - 2017-06

Ph.D.: Aerospace Engineering

Indian Institute Of Technology-Kanpur - Kanpur

- Specialization: High Speed Aerodynamics
- Thesis Title: Experimental and Numerical Investigation of Normal, Oblique and Parallel interaction of a vortex ring with the wall.
- Thesis Supervisor: Dr.Debopam Das
- ISRO Project: Starting Flow Characteristics of S200 Solid Motor in Ground Test Conditions: Near and Far Field Acoustics and Near Field Velocity Measurements. Principal Investigator - Dr.Debopam Das. (A part of my thesis - the velocity flow field)

2004-06 - 2006-05

M.E.: Aeronautical Engineering

Madras Institute Of Technology - Chromepet, Chennai.

- Specialization: High Speed Aerodynamics
- Project Title: Study of Flow Separation in Over-Expanded Nozzles

1996-08 - 2000-05

B.E.: Mechanical Engineering

Shanmugha College Of Engineering - Thanjavur

- First mark in Mechanics of Machines II (College level).
- Second mark in Non-traditional machining techniques (College level).

1994-06 - 1995-05

Higher Secondary School: Physics, Chemistry, Maths And Biology

St.Paul's Higher Secondary School - Salem - 636 003

1992-06 - 1993-05

High School: Science And Maths

St.Paul's Higher Secondary School - Salem

Languages

- Tamil
- English
- Telugu (only to speak)
- Hindi (only to read and write)
- Sanskrit (only to read and write)