Saravanan Dharmalingam

Design Consultant



Bangalore, Karnataka, 560034



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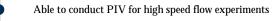
seran79@gmail.com

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



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

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.

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.

2020-08 - Current

2019-04 - 2020-08

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.

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

 $\bullet \;\;$ Coordinator of the Research proposal promotion cell for faculties.

Hindustan College of Engineering, Kelambakkam, Tamil Nadu

Education

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)

M.E.: Aeronautical Engineering

Madras Institute Of Technology - Chromepet, Chennai.

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

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).

Higher Secondary School: Physics, Chemistry, Maths And Biology

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

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)

2017-01 - 2019-03

2006-07 - 2007-12

2008-01 - 2017-06

2004-06 - 2006-05

1996-08 - 2000-05

1994-06 - 1995-05

1992-06 - 1993-05