

RAGHAVENDRAN MANI

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Education

- MS in Aerospace Engineering, Texas A&M University, College Station, graduating in 5/02, **GPA 4.00/4.00**
- B.Tech in Ocean Engineering, Indian Institute of Technology, Madras, graduated in 05/99, **GPA 3.46/4.00**

Work Experience

Graduate Assistant-Research: Department of Aerospace Engineering, Texas A&M University (05/00 – till_date)

- Developed different designs of Electro-Mechanical Systems for an Active Flow Control technique (Smart Skin) using Active Materials for actuation purposes
- Analyzing the performance of the various designs by a coupled CFD-Finite Element Analysis

Graduate Assistant-Non Teaching: Department of Aerospace Engineering, Texas A&M University (09/99 –04/00)

- Designed a series of body contours for Subterranean Trains and analyzed their effect on Aerodynamic Drag using the Computational Fluid Dynamics (CFD) software, STAR-CD
- Graded the Heat Transfer and Viscous Flow course for the Fall-99 and Spring-2000 semesters

Design Engineer Co-op: Macor Neptun GmbH, Bremen, Germany (11/98 – 03/99)

- Developed & Analyzed in an iterative fashion a series of Hatch Cover designs using the FEA package, NISA
- Formulated a new box girder arrangement for an existing Hatch Cover design
- Developed a novel support structure for the Hatch Cover that reduces weight without compromising strength

Publications

- Amlan Dasgupta, M.Raghavendran, J.S.Mani, “Integrated Wave Energy System for Island States”, Proceedings of the 2nd Minihydro Conference held in Palinuro, Italy, September-1998
- J.S.Mani, Amlan Dasgupta, M.Raghavendran, “Extraction of Wave Energy from Sea Wall”, Proceedings of the 3rd International Conference & Biannual meeting held at New Delhi, IATAFT 1998, November-1998

Academic Projects

- Computational & Experimental study of Synthetic Jet Actuators, Spring-2000
- Implementation of Piezoelectric Analysis using ABAQUS, to compare the performance of two types of Piezoelectric actuators (Bimorphs vs C-Block actuators), Spring-2000

Computer Skills

Languages :	C, Java, Pascal, Basic
Operating Environments :	Windows 95/98/NT/2000, UNIX
Numerical Analysis Packages :	ABAQUS, NISA, STAR-CD, GL Frame
Mathematical Packages :	MATLAB, MAPLE
Miscellaneous :	MS Office, AutoCAD

Related Courses

Intro. to Finite Element Methods	Spectral Methods in Heat Transfer & Fluid Flow
Active Materials	Heat Transfer and Viscous Flow
C and Java	Engineering Optics
Mechatronics	Solid State Devices

Honors/Activities

- Ranked first among the exchange students selected to go to Hochschule Bremen, Germany 11/98- 03/99
- Ranked among the top 2% of the 100,000 students who competed to gain admission at the IITs, 95

Work Authorization

Eligible for F1 Practical Training Work Authorization