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Indian Institute of Technology, Bombay

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OBJECTIVE

Obtain a position as a team-player in a people-oriented organization where I can maximize my Industrial experience in a challenging environment to achieve the goals of my company.

EDUCATION

Program	Institution	% / CGPA	Year of completion
M.Tech	Indian Institute of Technology Bombay	8.15	2014
B.E.(Aeronautical)	The Aeronautical Society of India	57.25%	2012
BSc.hons(Physics)	University of Delhi	64%	2012
XII	Govt. boys Senior Secondary School	76.4%	2007
X	Govt. boys Senior Secondary School	73.16%	2005

SCHOLASTIC ACHIEVEMENTS

- Secured topper rank in class since high school
- Recipient of Principal's trophy for being school topper
- Secured AIR 209 in GATE 2011 (Aerospace Engineering).
- Awarded certificate for selection of model in science exhibition at district level during high school

COURSE WORK

- Aerospace propulsion
- Numerical Methods for conservation laws
- Aerodynamics of compressor and turbine
- Aviation fuel and combustion
- Aerodynamics of aerospace vehicle
- Turbulence and combustion modelling
- Design of power plant for aircraft
- Gas Dynamics
- Rocket propulsion

LABS

- Propulsion lab

M.TECH PROJECT

Title: Experimental and numerical analysis of flow through Gas Turbine Exhaust diffuser

Guide: Dr. AM Pradeep

Brief Description:

- Gas turbine exhaust diffuser is essential part in the combined cycle power plant. It reduces the exit pressure of the turbine and thus increases the overall thermal efficiency of the power plant. The exhaust of the gas turbine large amount of kinetic energy which would otherwise would go waste. The purpose of the exhaust diffuser is to recover the K.E by means of static pressure rise by decelerating the flow.
 - Structural members like struts are present in the diffuser which are loss making devices. Support struts are all air foil shape but utility strut with passages for oil lubricant have blunt trailing edge. These struts in a diffuser cause flow blockage and disturb the symmetry of the flow.
 - So the design and optimisation of the geometry is crucial. For CFD analysis, 3-D model and meshing of the diffuser is made in the GAMBIT and for numerical analysis CFX-13 has been used.
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POSITIONS OF RESPONSIBILITY

- Conduction of Lab Practical as a teaching assistant In Propulsion lab for B.tech and M.tech.
- Elected member of Department student companion programme-2013

SKILLS

Computer:

- Proficient in handling Software packages like Matlab, Ansys- fluent ,cfx gambit
- Good understanding of programming languages C.

Soft Skills:

- Exceptional listener and communicator with good verbal and personal communication skills.
- Dependable, responsible contributor committed to excellence and success.
- Resourceful team player who excels at building trusting relationships with colleagues.