Ankur Mour   08001013

Aerospace Engineering   **UG Third Year (B.Tech.)**

Indian Institute of Technology, Bombay   Male

                                            DOB: 190989

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.88
Intermediate/+2	St. Clumbas School	St. Clumbas School	2008	90.60
Matriculation	Don Bosco School	Don Bosco School	2006	89.50

Internships

S. No.	Title	Supervisor
1.	**Modeling and Simulation Internship at the Boeing Research and Technology Centre, Bengaluru.** (May 2011-present)	Shane Rogers and Vijaya Kumara
	Integrating COTS and Boeing Proprietary Tools and software development activities including requirements elicitation, design, development, documentation and testing to grow Analysis & Experimentation capabilities.	
2.	**Simulation of Air-Flow in a Torrefaction Chamber using CFD at Agni Bio Power Energy Ltd. India.** (December 2010)	Dr. D. Ramaswamy and Mr. Ashish Garg
	The flow in the Torrefaction Chamber was modeled and the dominant parameters were identified. Based on these parameters an Up scaling of the Chamber for the future Plants was recommended.	
3.	**Algorithm for Maritime Reconnaissance at the Boeing Research and Technology Centre, Bengaluru.** ($6^{th} – 10^{th}$ December 2010)	Mr. Vijaya Kumara and Mr. Jonathan Read
	A pseudo code was developed to be integrated with the IWarS (Infantry warrior Simulation) in order to optimize the maritime surveillance for hostile vehicles in Indian waters.	
4	**Boeing Technical Emphasis Program (BTEP) on Analysis, Modeling, Simulation & Experimentation in India** (May- July 2010)	Prof. V. Sastry & Dr. Kathryn Wand
	Cranfield University - Boeing Summer Internship 2010 on the topic Indian Urban Pattern of Life Representations – the challenges and solutions of using AI.implant to simulate traffic behaviors in Indian urban areas.	

Academic Projects

S. No.	Title	Supervisor
1.	**B. Tech Project on Surrogate based analysis and shape optimization of Aerostat envelope with Fins.** (January 2011-present)	Prof. R.S. Pant and Prof. R. Duggirala
	Designing a Methodology for estimation of aerodynamic coefficients and coupling it to multi-disciplinary optimization algorithms of finned aerostats. The abstract of the paper was selected for publication at the 14th AIAA/ISSMO MAO Conference 2011.	
2.	**Improved Response Surface for Estimating Aerodynamic Coefficients of Aerostat Envelopes** (December 2009 - present)	Prof. R.S. Pant
	The abstract of the paper was selected for publication at the 13th AIAA/ISSMO MAO Conference 2010, but due to paucity of time, the paper wasn't completed before the due date. It will now be submitted for the 14th AIAA/ISSMO MAO Conference 2011.	
3.	**Flight Gear Flight Simulation** (July-December 2009)	Prof. P. Ramachandran (IIT Bombay)
	Supervised Learning Project involving an open source flight simulator, known as <u>Flight Gear</u> which provides almost-real flying experience and it involved developing detailed tutorials and documentation for different flight modes.	

4.	**Municipal Solid Waste Collection, Disposal and Utilization.** (July-December 2009)	Prof. P.M. Majumdar, Prof. K. Sudhakar, Dr. H. Arya
	Course project on Alternate and Economical ways of municipal waste collection, disposal and utilization, not including industrial effusion and sea-waste.	
5.	**Sustainable Development through Advanced Technologies.** (School Project)	Ms. Neelakshi Barua (Don Bosco School)
	Won the first prize for showing the utilization of rainwater harvesting and other technologies for urban development. A private screening was also arranged for His Excellency, The Governor of Assam	

Technical Skills

- ✓ **Programming Languages** : C, C++, Lua, Python
- ✓ **Operating Systems** : Windows ,Linux, Mac OS
- ✓ **Software: CFD –** Ansys Fluent, GAMBIT, Ansys AutoDesk
  AI techniques - Presagis AI.implant, Presagis Creator, Presagis TerraVista, VBS2, VRForces
  CAD - Auto Cad, Pro/E
  Others - MATLAB, Design Expert, MS Office,ExtendSim, ELISSA, COSMICS

Positions of Responsibility

- ✓ **INTERNSHIP COORDINATOR AT THE PRACTICAL TRAINING CELL**
  Responsible for securing internships for **1350** Students; role includes contacting and negotiating offers with companies, universities and planning internship schedule (April 2010 – present).

- ✓ **AN EXECUTIVE PANEL MEMBER OF INSIGHT**
  An editor and correspondent for INSIGHT, the official Students' newsletter and the Media body of IIT Bombay.

- ✓ A member of the **Aero-modelling Club** in IIT Bombay and participated with vigour in all Department activities including **AEA** (Aerospace Engineering Association) and **Airspace** (the Annual Department magazine).

Scholastic achievements

- ✓ **Topped** in the Class IX, Class X and the Pre-Board Examinations in Don Bosco School.
- ✓ Secured the **13th position** in as well as the **State Highest marks** in Mathematics and Advanced Mathematics in the Class X Board Examinations, conducted by State Educational Board of Assam
- ✓ Finished in the **Top 10** in ASSET '04 conducted by Education Initiative, Ahmadabad.
- ✓ Awarded **Certificates of Merit** in various Olympiads like AMTSE, NSTSE, NSO, NPO and others in the period of 2003-2007.
- ✓ Scored a total of **2080** in the **Scholastic Aptitude Test (SAT)** in 2007-08.

Extra-curricular Activities

- ✓ Awarded the **Governor's Award** as a **Junior Red Cross volunteer** in 2003-04.
- ✓ Awarded Certificate of Merit for Three consecutive years 2003, 2004 and 2005 in **Green Olympiad** sponsored by MINISTRY of ENVIRONMENT and FOREST, Government of India.
- ✓ Awarded the **First Prize** in Public Speaking in the Annual Columban Fest of St Columbus School.
- ✓ Member of **School Debating Team** at St. Columbus and **Associated Literary Edito**r of the School Magazine COLUMBAN in 2007-08.
- ✓ Part of the production team in **PAF** (Production Art Festival) 2009 and 2010 of IIT Bombay.
- ✓ Part of the **NSO** swimming team (2008-09) of IIT Bombay.

Social Services

- ✓ Visited various slums to interact with the people and taught elementary Maths and English to children.
- ✓ Worked as a **volunteer** for different charity organizations like Helpage India and CRY.

I hereby declare that the particulars given herein are true to the best of my knowledge and belief.