

Positions of Responsibility

- Internship Coordinator, Practical Training Cell, IIT-Bombay (2011-Present)
 - **Representative** for Department of **Mechanical Engineering** in a **25 member team** responsible for procuring internships for third-year and second-year students.
 - Professionally **contacting various companies and universities** to provide internships for the students and ensuring that they get appropriately placed in them.
- Class Representative, Department of Mechanical Engineering (2009 Batch) (July 2010 - April 2011)
 - Maintained **excellent rapport** between the faculty and students.
 - **Facilitated smooth communication** between my batch mates and department related activities both academic and non-academic.

Work Experience

- Research Assistant, Micro and Nano Transport Lab, University of Alberta, Canada
Topic - Mathematical Modeling of Variation in States of Wetting in Microfluidics
Guide - Prof. **Sushanta K. Mitra** (May 2011 – July 2011)
 - Performed **literature survey on the Wenzel and Cassie-Baxter states** arising due to wetting of rough and chequered surfaces.
 - **Presented several papers** related to this field in front of the Research Lab Group and prepared biweekly reports using **LaTeX**.
 - Studied and developed a mathematical code using **MATLAB** and **performed simulations** to study the change in the states of liquid drop from Wenzel to Cassie-Baxter states.
- Summer Training Analyst, HCL Commnet, Noida, India (May 2010)
 - Studied the role of Very Small Aperture Terminal (VSAT) in the field of business communication.
 - **Learned basic algorithms** involved in developing programmes required to keep an account of **real and user time** for which HCL provides VSAT services to its customers.

Course Projects

- Microsoft Case Study
Marketing Management (Autumn 2011)
 - Performed a case study on Microsoft Corporation using tools of Marketing Management such as **SWOT, PESTLE and Porter's 5-Force Analysis**.
 - Evaluated market position of various Microsoft products like Windows, Xbox etc.
 - Suggested a new product which Microsoft should launch based on the above analysis.

- Oil and Gas Pipes
Engineering Metallurgy (Autumn 2010)
Prepared a case study on what materials are used for the building of pipes in transporting oil and natural gas over a large distance depending upon the properties required for making such pipes.
- Mini UID Project
Guide – **Prof. D.B. Phatak** (Autumn 2009)
Developed a program to store the fingerprint of a registered student through count of minutia and stored it in the form of a simple text file to be used for the unique identification and further usage like biometric attendance. Also prepared a documentation of the program.

Scholastic Achievements

- Currently **ranked 8th** among 120 students in Department of **Mechanical Engineering**.
- Pursuing **Minor in Management studies** with an **aggregate of 9.5/10**.
- Secured **All India Rank 391** among 420,000 students in IIT-Joint Entrance Examination 2009
- Cleared the **NSE Certification of Financial Markets (NCFM) Exam** in the following modules :
 - ✓ Equity Derivatives
 - ✓ Derivative Markets (Dealers Module)
 - ✓ Investment Analysis and Portfolio Management
- Was **ranked 9th in India** and **2nd in Madhya Pradesh** in Matriculation (10th board examination) conducted by the CBSE.
- Secured **All India Rank 324** among nearly 1 million students in AIEEE-2009.
- Major Scholarships
 - ✓ Awarded **National Talent Search Examination (NTSE)** Scholarship in 2007 by NCERT. Awarded to only 1000 students per year.
 - ✓ **CBSE Scholarship** for securing AIR 324 in AIEEE.
 - ✓ **Inspire scholarship** by State Bank of India.
- Was **ranked 37** in state and 483 all India in the National Science Olympiad in 2007.
- Completed **Advanced C++ Course** conducted by **Prof. Supratim Biswas**.

Relevant Courses (To be Completed by April 2012)

<u>Non Core Subjects</u>	<u>Statistics and Mathematics</u>	<u>Core Subjects</u>
<ul style="list-style-type: none"> • Marketing Management • HR Management • Accounts and Finance • Operations Management • Economics • Sociology 	<ul style="list-style-type: none"> • Data Analysis and Interpretation • Numerical Analysis • Calculus • Linear Algebra • Differential Equations 	<ul style="list-style-type: none"> • Manufacturing Processes I & II • Solid Mechanics I & II • Thermodynamics • Fluid Mechanics • Heat Transfer

Softwares

Languages – C++ , HTML

Additional Softwares – MATLAB, LaTeX, SCILAB, MS-Office

Operating Systems – Windows, Linux, Mac

Extra-Curricular Activities

- Can solve **Rubik's Cube in less than 5 minutes**
- Undertook a 10 week Beginner course on **Ballroom Dancing**.

