



Archana
Metallurgical Engineering & Material Science
Indian Institute of Technology, Bombay

09011037
UG Third Year (B.Tech.)
Female
DOB: 22 June, 1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.63

ACADEMIC ACHIEVEMENTS:

- Got a rank within the top 0.5% students appeared in **IIT JEE 2009** with an **AIR 1497**.
- Got a rank within the top 0.14% students appeared for **AIEEE-2008**, securing **AIR 1371**.
- Secured a rank within the top 1% students appeared in **Indian National Physics Olympiad 2008**
- Secured a rank within the top 1% students appeared in **Indian National Chem Olympiad 2008**
- Qualified in the first phase of **National Informatics Olympiad – 2005**.
- Qualified in the first two phases of the **National Talent Search Examination – 2005** organised by the National Council for Educational Research and Training.
- Qualified in the first phase of **Indian National Astronomy Olympiad (Jr) – 2004**.
- Won **gold medal** and a cash award in the **National Cyber Olympiad 2004**

PRACTICAL TRAINING:

- Technical Analyst at Prophecis, Delhi (financial startup)**
Duration : 1st June to 6th July, 2011 (5 weeks)
Built a **pattern matching** platform similar to **TradeStation** using **MATLAB**. The platform used **pattern recognition** to identify **chart patterns** on in-sample data of stock markets (**commodities**) and used the **statistically significant patterns** to trade on out-sample data. The platform so designed was **fully automated**.
- Trainee at SAIL, Bhilai Steel Plant**
Duration : 9th May to 28th May, 2011 (3 weeks)
Field-based work involved learning nuances of **steel-making** under training officers of **various departments** including Blast Furnace, Coke Oven, Blooming and Billet Mill, Wire and Rod Mill, Rail and Structural Mill, and Plate Mill.

PROJECT:

- Mini National UID for IIT Campus**
Guide: Prof. Deepak B Phatak, CS101 course project, Oct-Nov'09
 - The Project involved the generation of Unique Identity system for all the residents living in the IIT campus, on the lines of the Government of India's project of setting up a unique Identity system for all the citizens of the country
 - I led a 4 member team whose work involved writing the codes in C++ environment for the usage of the entire project (recording attendance, access control, conducting online exam). It also involved development of Graphical User Interface for the same.
- Manufacturing and Properties of Silly Putty :**
Guide: Professor Ajay Singh Panwar. June 2010
Project involved making silly putty using basic materials and studying its properties.
- Solidification microstructures in Ammonium Chloride and water mixture :**
Guide: Professor M.P. Gururajan. June 2010
Project involved making a mould and studying the microstructures formed on pouring the mixture
- Programming Project-** Designed codes in **MATLAB** to solve problems in Transport Phenomena.
- Structures Project-** Created a 3-D model, made a presentation and reported the important data on stresses and strains developed in '**The Howrah Bridge**'

POSITION OF RESPONSIBILITY:

- Web secretary** of Hostel – 10, IIT Bombay, 2010-2011.
Work included updating the website, putting up notices and conducting intra-hostel polls.
- Co-ordinator in Mood Indigo**, 2010
Work involved conceptualizing and executing two music band events (Hindi and Western) that ran over a span of all four days of Mood Indigo. Led a team of 5 organizers for the same. Also, helped in the conceptualizing and execution of various other events under Music, Literary Arts and Informal competitions.

TECHNICAL SKILLS:

- Programming Languages: **C, C++, Python, R**.
- Operating Systems : **Ubuntu, Windows**
- Applications : **MATLAB, Scilab, MS Office**

EXTRA CURRICULAR ACTIVITIES:

- Made an **RF remote controlled car** for F1 Race organized by Technic IIT-B.
- Participated as a **guitarist** with my band in **Mood Indigo, 2009**, IIT Bombay and **Chaos 2010**, IIM Ahmedabad.
- Performed as a **guitarist** in **Surbahar 2010** and **Swarsandhya 2011** (Hindi Music events), and **Unplugged 2010, 2011** and **Acoustic Dusk 2009** (Western Music events), **Goonj 2011** (Inter-hostel Hindi music competition).
- Won 3rd position in **inter-collegiate team event** Pentathlon organized by **Malhar, St. Xaviers**.