



Aarushi Bhargava
Metallurgical Engineering & Material Science
Indian Institute of Technology Bombay

110110022
UG Third Year (B.Tech.)
Female
DOB: 23 April 1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.29

Key Internships and Projects

- **Winter Internship at Firestar Diamond Intl. Pvt. Ltd. :** [December,2013]
 - Researched and devised several experiments to reduce porosity and cracks in platinum and gold castings
 - Experiments yielded improved surface finish thereby reducing filing time by 15%
 - Results showed reduction in precious metal loss by 5.5%, thereby indicating reduced porosity and improved final cast.
- **Corporate Relations Head, Purple Squirrel Eduventures Pvt. Ltd. :** [October,2013]
 - Market research for potential clients
 - Conducted several deals successfully with corporate such as L&T, Cairn International and National Institute of Ocean Engineering
- **Winter Internship at KOTA SUPER THERMAL POWER STATION:** [December,2012]
Analysed various aspects of electricity production, coal handling and fly ash management, and submitted a detailed report to the Chief Engineer, KSTPS
- **ITSP: Institute Technical Summer Project** [May-June,2012]
Built a TxtWeb Application, which calculated the auto fare between two destinations, using HTML5 and PHP
- **Demonstration on FerroFluids** (Course Project) [April,2012]
(Guide: Prof. Ajay Singh Panwar)
Prepared a sample of FerroFluids and demonstrated its various magnetic and mechanical properties
- **Library Management Programme** (Course Project) [September,2011]
(Guide: Prof. M.P. Gururajan)
Management programme coded in C++ to issue the books and keep records of books in a library

Scholastic Achievements

- Secured All India Rank **1912** in *Joint Entrance Examination,2011* (JEE) among 492,000 students
- Grabbed **675th** position in *ISAT (Indian Institute of Space and Technology),2011*
- Awarded the **Student of the Year Award** in 2010-11, for showing an all-round performance in school
- Received **Brilliant Student Medal Award** for two consecutive years (2010,11) and a **Scholarship worth Rs.6000** for the *Talent Scholarship Exam* conducted by *Saraswati Shiksha Sansthan, Rajasthan*
- Procured **2nd** position and won a **Scholarship worth Rs.5000** in the *State Level Talent Search Examination,2011* conducted by *Raj. Education and Research Development Society*
- Secured **25th** and **20th** rank respectively for **4th** and **3rd** *International Mathematics Olympiad* (2011,2010)
- Bagged **242** and **214** position respectively in **13th** and **12th** *National Science Olympiad* (2011,2010)
- Achieved **33rd** Olympiad rank in *International Olympiad of Mathematics,2010*

Key Courses

- **Additional Learning:** Introduction to Probability Theory, Managerial Economics, Quantitative Methods for Economic Analysis
- **Departmental:** Ceramics and Powder Metallurgy, Mechanical Behaviour of Materials, Phase Transformations, Structure of Materials, Transport Phenomenon, Mechanics of Materials, Thermodynamics, Kinetic Processes, Electronic Properties of Materials, Process Metallurgy, Metal Casting and Joining
- **Experimental:** Mechanical Testing Lab, Heat Treatment Lab, Manufacturing Processes Lab
- **Mathematics:** Calculus, Linear Algebra, Ordinary and Partial Differential Equations, Introduction to Numerical Analysis
- **Others:** Computer Programming and Utilization, Theory of Machine and Machine Design, Sociology

Skills and Proficiencies

- **Programming:** C/C++, PHP, HTML, R (Statistical Computing Platform)
- **MS Office:** Excel, Word, PowerPoint

Extra Curricular Achievements

- Stood **1st** in the "*Idea Blaze*" competition organised by *E-Cell, IIT-Bombay* during *E-Summit,2013*
- One of the In-charges, in leading a team of 18 dancers for the *Inter Hostel Dance competition, Gyration,2012*
- Selected for the *Inter-IIT Camp,2012* for Basketball Inter IIT Tournaments
- Headed the team at **CBSE Basketball Cluster ,2010-11** and represented the district the *State Level Tournament*
Languages: English, French