



**Rajveer Singh Rathore**  
**Metallurgical Engineering & Material Science**  
**Indian Institute of Technology, Bombay**

**09D11020**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 17-01-91**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.36
Intermediate/+2	CBSE	Padampat Singhanian School	2009	88.60
Matriculation	CBSE	Maheshwari Public School	2007	89.00

## Scholastic Achievements

- **Department Rank 5** (among 56 students); secured a CPI of **9.0/10.0** in **core department courses** in 4 semesters.
- Qualified the IIT Joint Entrance Exam 2009, among over 4, 00,000 students with **99.40percentile**.
- Secured All India rank 2170 (out of 8, 00,000 students) in the AIEEE 2009 (All India Engineering Entrance Exam) with a percentile of **above 99.8%**.
- Cleared 2<sup>nd</sup> level of **National Talent Search Examination (NTSE)**'06, conducted by National Council for Education Research & training (NCERT).
- Cleared State **Science Talent Search Examination (SSTSE)**, was among the top 100 students who appeared for the examination.
- Cleared **5<sup>th</sup> National cyber Olympiad** and secured state rank 3<sup>rd</sup> among 10,000 students who appeared for the examination.
- Secured **9.73 SPI** (Semester Performance Index) in 3<sup>rd</sup> semester.

## Internships

### Hindustan Zinc Limited, Chittorgarh (Rajasthan)

(June – July 2011)

Guided by Mr. K G Baldi, Senior Roasting Plant Manager, HZL (Rajasthan)

**Topic:** Possible Hazards and Risk Assessment related to roasting section of zinc manufacturing plant.

- Surveyed and understood all the processes at microscopic level involved in roasting section of zinc manufacturing plant.
- Examined several risk prone areas and pointed out possible hazards in case of a leakage of any gas or any compound involved in the processes.
- Suggested safety measures related to each process in roasting section by going through the Material Safety Data Sheet (MSD) of each compound, gases involved in processes

### Maharashtra Metal Powder, Nagpur

(June 2010)

- Visited the plant, understood processes involved in making Aluminum Powder.
- Understood the processes used for finding its relative density & for its purification.

## Projects Undertaken

### Unique Identification Device, C++ Programming

(Oct – Nov 2009)

Guide - Prof. Deepak B. Phatak, CSE Department, IIT Bombay

- Developed a fingerprint recognition unique identification (UID) software in C++ for the IIT campus. The project used an algorithm to match the input fingerprint with the stored fingerprint and would return a percentage of match if two fingerprints are same.

### Material Having Negative Poisson's Ratio

(January – April 2010)

Guide – Prof. Ajay Singh Pawar, Metallurgical & Material Science Department, IIT Bombay

- Made a working model of a material showing negative poisson's ratio as a course project.

### Mega Structure: Millau Bridge (France), Case study

(July – November 2010)

Guide: Prof. K. Narasimhan, Metallurgical & Material Science Department, IIT Bombay

- Made a 3D model and presentation on the Millau Bridge (France) explaining its mechanical and structural aspects.

### Transport Phenomena Project

(July – November 2010)

Guide: Prof. Nurni Viswanathan, Metallurgical & Material Science Department, IIT Bombay

- Made a course project to solve 2D steady state conduction problem using MATLAB.
- Secured additional bonus marks for my proficient work.

### Business Plan Development

(July- present 2011)

Guide: Prof. Venketramani, Metallurgical & Material Science Department, IIT Bombay

- Studying the market in materials, its various aspects, features and components to cope up with a Business Plan Model in an area.

- Fabricating an internal operating plan describing the planning details considering the viability and profitability in the venture.

## Financial Statement Analysis

(July-present 2011)

Guide: Prof. Bapat, School of Management

- Carrying out a detail study of the annual financial report of a company and assessing its extent of compliance to the accounting standards by calculating the CG score of the company.

## Software Skills

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**Programming Languages:** C++, HTML

**Software Tool:** SCILAB, Adobe Photoshop, MATLAB

**Operating Systems:** Linux, Microsoft Windows

**MS Office:** Excel, Word, PowerPoint

## Courses Undertaken

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### Department Courses

- Mechanics of Materials, Transport Phenomena, Structure of Materials, Kinetics of Processes, Colloidal and interfacial science, Ceramics and Powder Metallurgy, Mechanical Properties of materials, Phase Transformations.

### Lab Courses

- Experimentation and Measurements Laboratory, Heat treatment Laboratory, Mechanical Testing Lab, Metallography and Structure Characterization Lab.

### Technical Courses

- Computer Programming and Utilization, Experimentation and Measurements Laboratory, Remote Sensing & Image Processing, Introduction to electrical engineering, Mechanical workshop Practice, Engineering Graphics and Drawing, Theory of Machines and Machine design, Electrical/Electronic lab.

## Position of Responsibility

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### Internship Coordinator, Practical Training Cell – IIT Bombay

- Responsible for the internship of **1500 students**; role includes negotiating offers with around **100 companies** and planning the internship schedule.
- Playing a key role in **formulating policies, coordinating, scheduling and acting as an interface** between students, authorities and companies.
- Introduced several changes in procedure namely **taking feedback from guides, HR, participating students, simultaneous slotting.**
- Coordinating with Heads & faculties to **increase the number of core companies** this year.

### Event Manager, Padarth (Department Festival) – IIT Bombay

- Leading a team of 10 volunteers, responsible for formulating, conceptualizing and executing various competition events, which have a footfall of around 3000 students.

### Sports Secretary, Hostel 9 – IIT Bombay

- Responsible for selection of players from hostel for about **16 General Championships.**
- Led the hostel team to 1<sup>st</sup> position in 3 General Championships.
- Increased sport enthusiasm in hostel students by conducting **12 intra hostel sport events.**

### Coordinator, Informals Department – Mood Indigo

- Led a team of 25 volunteers, to successfully formulate and execute an informal event which saw a participation of more than 300 students.
- Planned and managed the **budget, infrastructure requirements and manpower** for the event.

## Extra-Curricular Activities

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### Sports

- Member of the Senior Cricket team participated in many **District level Cricket Tournaments..**
- Won many Trophies and monetary Prizes for my all – round performance in cricket Tournaments.
- Won many Inter School **Chess Championships.**
- Represented hostel in Cricket & Chess General Championships.
- Member of **NCC (National Cadet Corporation)** & cleared the state level examination.

### Cultural

- Member of the winning team in **Gyrations (Inter Hostel Dance Competition).**
- Member of winning Drama and Dance team of Performing Art Festival.
- Performed in Annual In sync Dance Show, which saw an audience of about 1000 students.
- Dance instructor for salsa dance workshop which saw the participation of about 300 students.

### Other Interests & Social Works

- Avid follower of **politics & stock market.**
- Donated blood in many blood donation camps.