



**Shashank Bansal**  
**Chemical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: None**

**110020050**  
**UG Second Year**  
**Male**  
**DOB: 17/07/1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	6.87
Intermediate/+2	M.P board	Ideal H.S School	2010	80.80
Matriculation	CBSE	Little Angels H.S School	2008	82.20

## INTERNSHIP

### J K CHEMICALS PVT LTD

[May'12-June'12]

- Studied and observed the process incorporated for the **manufacture of Fevicol** and the various techniques used to optimize the energy requirements of the plant.
- Optimized the usage of **compressors**.
- Diagnosed the problem of continuously decaying of **compressors efficiency**.

Received '**Letter of appreciation**' for the outstanding work done in the factory.

## INDUSTRIAL EXPERIENCE

### RASHTRIYA CHEMICAL AND FERTILIZERS (RCF), MUMBAI

[Jan'12]

Guide – Prof. Sanjay Mahajani

- Underwent training programme at RCF wherein studied and streamlined the process of **Manufacture of Sulphuric Acid** by contact process with emphasis on purge techniques and emission control.
- Integrated a comprehensive report showing the variations in amount of sulphur di-oxide in the atmosphere and ways to control the concentration of sulphur di-oxide below the limit prescribed by the government of India.

## TECHNICAL ACTIVITIES

### LINE FOLLOWING ROBOT

- Build an autonomous robot which can follow a white painted path on a black background.
- Used the Proportional Integral Differential for line following and differential drive mechanism.

### REMOTE CONTROLLED RACING CAR

- Designed a remote controlled car for the Intra College Event which worked wireless and cleared a circular path containing many obstacles.

## ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 923** in **IITJEE** among 5 lac students. [2011]
- Procured a place in **top 0.2%** of the country in **AIEEE** among 11.5 lac students. [2011]
- Secured **58<sup>th</sup> Rank** in Madhya Pradesh in the Pre Engineering Test (**MP-PET**) among **1, 25,000** students. [2011]
- Felicitated by **Swatantrata Sangram Senani Shree Kishanbhai Patel Educational Trust** for excellent academic performance in the year **2007-08** in **Secondary School Examination**. [2008]
- Consecutively achieved **1<sup>st</sup> Position** in class for **10 years**.
- Recipient of **IIT Bombay's merit-cum-means scholarship**.

## SKILLS

- Programming Languages: C++, SCILAB.
- Web and GUI Tools: Solid works, HTML, Microsoft office, Adobe Photoshop.
- Operating system: Windows, Linux.

## POST OF RESPONSIBILITY

### MENTOR-*Avanti Fellows*

[Aug'12-Present]

- Holds the post of mentor for **Avanti Fellows**, a non-profit organization which helps bright students from poor socio-economic backgrounds to study for competitive examinations.
- As a mentor, currently guiding and tutoring two student mentees through their academic life.

### COORDINATOR, TECHFEST, *Asia's Largest Technical Festival*

[July'12-Present]

- Part of a 20 member team of **Exhibition**.
- Responsible for bringing many Exhibitors from all over the world by influencing them.
- Managed with team a crowd of around half a lac peoples in 3 days.

### COORDINATOR, MOODINDIGO, *Asia's Biggest Cultural Festival*

[July'12-Present]

- Active member of the organizing team for the Night Arena and Panel Debate.
- In talks with various international authors for interactive sessions.
- Organised the Food Fest by inviting various authentic cuisine restaurants.

### FINE ARTS SECRETARY, *Ideal H.S School*

[July'09-Feb'10]

- Organised many different Drawing and Painting competitions for different categories.
- Initiated Rangoli making, Face painting and wall painting competitions.

## KEY COURSES UNDERTAKEN

**Mathematics Courses:** Complex Analysis, Calculus, Linear Algebra, Differential Equations.

**Core courses:** Chemical Engineering Thermodynamics, Fundamental of Heat and Mass Transfers, Introduction to Transport Phenomena, Solid mechanics, Process fluid Mechanics, Introduction to Numerical Analysis, Introduction to Chemical Engineering.

**Non-Core Course:** Computer Programming and Utilisation, Data Analysis and Interpretation, Economics, Environmental studies, Science and Engineering, Chemistry, Modern physics.

**Laboratory Courses:** Chemical Engineering Lab 1, Experimentation and Measurements Lab, Chemistry Lab, Physics Lab, Engineering Graphics and Designing, Workshop Practice.

## EXTRA CURRICULAR ACTIVITIES

- Successfully completed **National Sports Organisation (NSO)** course in **KHO-KHO**. [2012]
- Participated in world record of solving Rubik's Cube entered in **Guinness Book** of World Record and **Limca Book** of World Record.
- Received a certificate of **EVENT MANAGEMENT** for successfully organising an event held for honouring the 189 students who got selected in IIT-JEE 2012 from **RANKERS POINT**.
- Received an award for achieving **1<sup>st</sup> Position** in a General Knowledge competition conducted by an organisation in 2005.
- Participated in a drawing competition and achieved 1<sup>st</sup> position organised by BAL CLUB in 2004.