



**Bhanu Nagpal**  
**Chemical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: None**

**110020083**  
**UG Second Year**  
**Male**  
**DOB: 16/08/1994**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.51
Intermediate/+2	CBSE	Tiny Tots School	2011	90.40
Matriculation	CBSE	Nosegay Public School	2009	91.00

## ACADEMIC ACHIEVEMENTS

- **Department Rank 8** out of 126 students pursuing Chemical Engineering [2012]
- Currently pursuing **minor in Management** from S. J. Mehta School of Management, IIT Bombay
- Achieved a rank among **top 0.2%** students appeared in **IIT-JEE** [2011]
- Secured a position among the **top 0.1%** candidates appeared in **AIEEE** [2011]
- Ranked under 300 in **Indian National Chemistry Olympiad** conducted by Association of Chemical Teachers and Homi Bhabha Centre for Science Education [2011]
- Scholarship holder for 2 consecutive years in 11<sup>th</sup> and 12<sup>th</sup> standard on merit basis

## POSITION OF RESPONSIBILITY

**CLASS REPRESENTATIVE, Chemical Engineering** [Apr'12-Present]

- Act as a **liaison** to the faculty for issues that are of collective concern of the respective class
- Played an active role in formulation of **department policies**
- Coordinated with the professors for monthly **student feedback** of the course
- Organized various events in department such as **formal day** and **department trip**

**COORDINATOR, TECHFEST, Asia's Largest Technical Festival** [Mar'12-Present]

- Leading a group of 15 organisers for conceptualizing and execution of various informal events, competitions, ambiance under **On the spot Zone**
- Raising sponsorship for the festival by associating with major brands like **Croma, Flipkart**

**COORDINATOR, MOOD INDIGO, Asia's Largest Cultural Festival** [Mar'12-Present]

- Part of a 10 member team, entrusted with raising sponsors for Food and Beverages section
- Leading 14 organisers for maintaining logistics for food court and refreshments for artists

**ORGANISER, Entrepreneurship Cell (E-Cell)** [Aug'11-Feb'12]

- Participated in execution of **E-Summit**, an annual flagship event for bringing together budding entrepreneurs, venture capitalists, investors

## INTERNSHIP

**SHREE MAHAVIR OIL & GENERAL MILLS** [May'12]

- Performed numerous **physical and chemical** tests like acidic value, saponification value to understand the quality of mustard oil
- Studied the production process of mustard oil, **suggested measures** for improving the oil grade

## INDUSTRIAL EXPERIENCE

**RASHTRIYA CHEMICAL AND FERTILISERS, MUMBAI** [Jan'12]

*Guide – Prof. Sanjay Mahajani*

- Studied the Double Contact Double Absorption technology used in the **Sulphuric Acid**
- Analysed various factors concentration, pressure, temperature and volume of the reactor affecting the governing reaction

## RAJASTHAN STATE SRIGANGANAGAR SUGAR MILLS LIMITED

[Jun'12]

- Successfully completed a training program on “**Production of Rectified Spirit**” from molasses
- Observed the process incorporated for the manufacture of rectified spirit and the various techniques used to optimise the energy requirements of the plant

## TECHNICAL ACTIVITIES

### AUTONOMOUS LINE FOLLOWING ROBOT

*Freshers General Championship, IIT Bombay*

[Oct'11]

- Secured **3rd Position** among 120 participating teams in the event
- Built an autonomous robot which can follow a white painted path on a black background
- Used the **PID control mechanism** for line following and differential drive mechanism

### ROBOTIC MANIPULATOR

*Institute General Championship, IIT Bombay*

[Nov'11]

- Secured **1st Position** among all freshmen Participants
- Designed a manual machine which had to perform basic pick and place task
- Implemented a unique 4 bar gripping mechanism and actuation system
- Awarded the **best manual Robot** and **most innovative design**

### REMOTE CONTROLLED RACING CAR

[Sep'11]

- Designed and fabricated a remote controlled car using **Radio Frequency** for the Intra College Event which cleared a circular path containing many obstacles

## SKILLS

- **Programming Languages:** C,C++, SCILAB, MATLAB
- **Web Tools:** HTML, CSS
- **Software:** Microsoft Office, Solid works, Adobe Photoshop

## KEY COURSES UNDERTAKEN

### CORE

- Chemical Engineering Thermodynamics
- Fundamental of Heat and Mass Transfer
- Introduction to Transport Phenomena
- Solid Mechanics
- Process Fluid Mechanics
- Introduction to Numerical Analysis

### BREADTH

- Marketing Management
- Project Management
- Computer Programming and Utilization
- Data Analysis and Interpretation
- Economics
- Experimentation and Measurement Lab

## EXTRA CURRICULAR ACTIVITIES

### NATIONAL SERVICE SCHEME

[2012]

- Volunteered for **Environmental Conservation Forum(ECF)** , National Service Scheme
- Planted 4,000 saplings with a team of 40 under **Green Campus** Initiative, IIT Bombay

### GUINNESS WORLD RECORD

[2012]

- Participant of the Guinness World Record of most people solving **Rubik's Cube** at a time

### SOCIAL SERVICE

[2009]

- Arranged funds for **HelpAge India** working nationwide for the cause and care of the elderly

### CULTURALS

- Participated in various **hostel cultural events** like Matki Phod, Cultural night, Dusshera
- Part of the dancing team of school which won various competitions at district level