



Vibhore Jain  
Chemical Engineering  
Indian Institute of Technology, Bombay  
Specialization: None

100020001  
UG Third Year (B.Tech.)  
Male  
DOB: 11-11-1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.38
Intermediate/+2	CBSE	Maheshwari Vidyapeeth	2010	90.60
Matriculation	CBSE	Lancers Army School	2008	92.50

## SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank **669** in IIT-JEE 2010 given by about 5,00,000 aspirants
- Secured All India Rank **1036** in AIEEE 2010 given by about 11,00,000 aspirants
- Secured **International Rank 90** in 2<sup>nd</sup> IMO and **International Rank 227** in 3<sup>rd</sup> IMO conducted by Science Olympiad Foundation

## AWARDS

- Received an **Undergraduate Research Award (URA-01)** for my work in the project, "Thermodynamic properties of commercially important polymers" under the guidance of Prof. Jhumpa Adhikari (*Dept. of Chemical Engineering*)

## INTERNSHIPS AND KEY ACADEMIC PROJECTS

### Design and Performance Analysis of Key Equipments

[May '12 – Jun '12]

*Interned at Sulphur Products production unit of Bodal Chemicals Ltd., Vadodara*

- Identified potential areas of **improvement** while analyzing the working of cooling towers, thereby **reducing the electricity consumption**
- Assisted in the **installation** of a new Sulphuric Acid plant by **designing** heat-exchangers, a waste-heat boiler and an absorption tower
- Located **bottlenecks** in an already-designed Heat-Exchanger and recommended **feasible solutions** within the given constraints to cut the overall costs of operation

### Thermodynamic properties of commercially important polymers | Guide: Prof. J. Adhikari

[May '11 – Oct '11]

- Carried out a comprehensive literature survey on **polymerization processes** and **thermodynamic properties** for various individual components and mixtures
- Giving a head-start to the researchers by making available the existing literature in a consolidated manner beforehand

### Biosynth Project | Guide: Prof. S. Mahajani

[May '11- Present]

Project 'Biosynth' is a first ever student's initiative of installing a Biodiesel producing plant at an institute level in India.

- Presently working as a **Manager**, leading a team of 19 second-year undergraduate students
- As a part of the **Research and Development** team,
  - Investigated the viability of neutralization of sulphuric acid mixture through **anionic resin exchange**
  - Reviewed the importance of water content control in Biodiesel production and its quantification using near-Infrared Spectroscopy as a part of Quality Control
- As a part of the **Design and Planning** team,
  - Actively involved in the first plant run, leading to a production of 100 liters of Biodiesel
  - Conducted a department-wide seminar on "Design of Distillation Columns"
  - Suggested** possible improvements in the Piping and Instrumentation Diagram to overcome the problems faced during commissioning

- Conceptualized a popular board game **Snakes & Ladders** on C++, which could be played by two players at a time
- Led the **Graphics team**, responsible for designing the gameplay interface, using **EZ-Windows**

- Visited the **sulphuric acid plant** at Rashtriya Chemicals and Fertilizers Ltd., Chembur
- Prepared a detailed report by performing **mass and energy** balance calculations for the sulphuric acid plant

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## COMPUTER PROFICIENCY

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- Programming Languages – C++, Visual Basic, HTML
- Software – MATLAB, Scilab, Adobe Flash

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## POSITIONS OF RESPONSIBILITY

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**Manager, Competitions, AZeotropy 2013**

[Apr '12 - Present]

An annual technical festival of Chemical Engineering Department, IIT Bombay

- Organizing and structuring various kinds of competitions like **Age of Chempires**, Life Cycle Analysis and Step-Up and online competitions like **Virtual Chemical Market**
- Conceptualized and designed the competition **Chem-E-Car**, providing students with an opportunity to work in a team-oriented construction of a small chemical-powered model car

**Department Academic Mentor**

[Apr '12 – Present]

- Member of Department Academic Mentorship Programme, which **helps weak students** to improve and seeks to maximize the academic potential of all students
- **Coordinating with the faculty** in spotting and handling cases like academic disinclination and depression

**Coordinator, Mood Indigo 2011**

[May '11 – Dec '11]

- Planned and executed the fashion show **Vogue** successfully
- Corresponded with various journalists and authors for the **Panel Debate**

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## EXTRA-CURRICULAR ACTIVITIES

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**Sports**

- Member of **National Sports Organisation**, **Table Tennis** during freshman year
- Represented the hostel in inter-hostel Volleyball and Table Tennis general championship

**Technical Activities**

- Designed a wireless car for Trackmania Event of IIT Bombay cleared path containing many obstacles
- Designed and built a robot that could pick up and lift boxes to the desired height
- Built a **Hydraulic Lift** in grade 12 for Science Exhibition and won the 'Best Project Award'

**Social Service**

- Received a "**Certificate of Social Service**" by Helpage India for contributing towards helping the old in leading a secure and healthy life

**Miscellaneous**

- Fluent in English, Hindi and Gujarati
- Participated and won various inter-school general knowledge quiz competitions
- Other interests include reading novels, solving puzzles and travelling