



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	2013	8.42
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 among 11,00,000 aspirants
- Secured **International Rank 90** in 2nd IMO and **International Rank 227** in 3rd IMO conducted by Science Olympiad Foundation

INTERNSHIPS AND KEY ACADEMIC PROJECTS

Industrial Applications of Organic Solvent Nanofiltration |

[Dec '12]

Interned at Technologies Division of Ion Exchange Ltd., Mumbai

- Studied the developments in OSN and its potential uses and pin-pointed the **applications with maximum potential** and viability in the Indian markets
- Conceptualized a **separation process** employing OSN to isolate naphthenic acids from crude oil for a refinery giant

Design and Performance Analysis of Key Equipments |

[May '12 – Jun '12]

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

- Identified potential areas of **improvements** while analyzing the working of the Cooling Towers, thereby assisting in **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 the design of Heat-Exchanger and recommended **feasible solutions** within the given constraints to cut the overall costs of operation

BioSynth Project | Guide: Prof. Sanjay 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 efficiency and viability of neutralization of sulphuric acid mixture through **anionic resin exchange**
- 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 Cooling Towers"
 - Involved in **commissioning of the plant** and **suggested** possible improvements in the Piping and Instrumentation Diagram to overcome the problems faced during commissioning

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
- Received an **Undergraduate Research Award (URA-01)** for my outstanding work

C++ Course Project

[Nov' 10]

Guide: Prof. D.B. Phatak (Computer Science & Engineering. Department)

- Conceptualized the **board game Snakes & Ladders** on C++ using EZ-Windows, which could be played by two players at a time
- **Handled** the designing of the graphical interface, being the head of the Graphics Designing team

Report on Contact Process

[Jan '11]

Guide: Prof. Vinjamur Madhu and Prof. Sanjay Mahajani (Chemical Engineering. Department)

- Visited sulphuric acid plant of Rashtriya Chemicals and Fertilizers Limited, Chembur
- Prepared a detailed report balance calculations for the sulphuric acid plant

COMPUTER PROFICIENCY

Programming language and software

- C++, Visual Basic, HTML, SQL
- MATLAB, Scilab, MS Office, Adobe Flash, Sony Vegas

POSITIONS OF RESPONSIBILITY

Competitions Manager, AZeotropy 2013

[Apr '12 - Present]

- Responsible for organizing and structuring various kinds of competitions related to Chemical Engineering
- Formulated a structure for 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 faculties** in spotting and handling cases like academic disinclination and depression

Coordinator, Mood Indigo

[May '11 – Dec '11]

- Planned and executed the Fashion Show event Vogue successfully

EXTRA-CURRICULAR ACTIVITIES

Sports

- Member of **National Sports Organisation, Table Tennis** and also represented hostel in inter-hostel general championship
- Represented hostel in Volleyball inter-hostel general championship

Technical Activities

- Made a car for Intra College Event (**F1** Car Racing Robotics Event) of IIT Bombay which worked **wireless** and cleared circular path containing many obstacles
- Participated in the selection competition for '**Robocon '11'**, designed and built a wire- controlled robot that could pick up and lift boxes to the desired height
- Built a **Hydraulic Lift** in 12th standard 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