



Prakhar Singh
Chemical Engineering
(B.Tech.)
Indian Institute of Technology, Bombay

1100200057
UG Second Year
Male
DOB: 12-08-1993

Examination	University	Institute	Year	CPI/%
Graduation	IIT Bombay	IIT Bombay	2011	7.82
Intermediate/+2	RBSE	Shiv Jyoti School	2011	85.23
Matriculation	CBSE	Kendriya Vidyalaya	2009	90.20

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank 763 in IIT-JEE 2011
- Qualified for Indian National Chemistry Olympiad (INChO), ranked among top 300 students from all over India
- Successfully cleared the 2nd phase of National Talent Search Examination (NTSE) 2007
- Merit listed in Senior Secondary Examination; among the top 50 students of the district

KEY ACADEMIC PROJECTS

PROJECT BIOSYNTH | *Guide: Prof. S. Mahajani*

[May 2012 - Present]

Installing a Biodiesel plant of 200L per batch capacity, produced using Waste Vegetable Oil

- As member 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 and its quantification using near-infrared spectroscopy as a part of quality control
 - Validated the composition of synthesized Biodiesel by comparing the retention time using the technique of high-performance liquid chromatography
- As a member of **Design and Production**, was involved in making Process Flow Diagram and Piping & Instrumentation Diagram

INDUSTRIAL VISITS

RASHTRIYA CHEMICAL AND FERTILIZERS LTD

[February 2012]

- Worked on **Double Contact Double Absorption** (DCDA) technology for commercial production of sulphuric acid
- Prepared a Detailed Report to elucidate complete working of the sulphuric acid production plant using flow diagrams, and mass and energy balances

POSITIONS OF RESPONSIBILITY

SERVICES INCHARGE, CASHLESS CAMPUS

[June 2012 till date]

India's first contactless prepaid payment system

- As a part of team of 7, conceptualized and implemented the scheme throughout the institute
- Coordinated with professors, institute officials and hostel representatives to get all the shops, stalls and canteens under the scheme
- Assisted in registration of more than 2000 students in first phase spanning over 8 days

HOSTEL DEBATING AND LITERARY ARTS SECRETARY, HOSTEL 8

[Aug 2012 till date]

- Improving existing Literary Arts and Debating culture and promoting it among hostel inmates
- Representing hostel at institute level competitions and general championships

ORGANISER, TECHFEST

[Aug 2011 - Jan 2012]

Asia's Largest Science and Technology Festival

- Worked in a team of 35, and arranged corporate sponsorship for the festival
- Coordinated with sponsors during the festival spanning over 3 days

COMPUTER PROFICIENCY

- Programming Languages : C, C++, Java, HTML
- Operating System : Windows, Linux
- Software Proficiency : MS Office, Scilab, MATLAB

EXTRA CURRICULAR ACTIVITIES

SOCIAL SERVICE

- Volunteered for the **Education and Outreach Activity** during freshmen year as part of National Service Scheme activity
- Volunteered for NGO MAD (Make A Difference) and counseled underprivileged kids and their parents about importance of education
- Registered member and regular blood donor with State Blood Transfusion Council

SPORTS

- Represented hostel in sophomore Hockey, Table – Tennis and Cross Country General Championship
- Represented school in Chess Regional Meet
- Part of the winning team of annual intra-hostel cricket league

MISCELLANEOUS

- Speed cube solver, solved a 3X3X3 cube **under two minutes** and was a part of the **IIT Bombay's Limca Book World record** of solving the maximum number of Rubik Cubes simultaneously
- Completed two-year formal course in Tabla
- Passionate about travelling and photography, been to more than 15 states in India
- Acted as a lead role in two short movies and a street play to represent hostel in General Championships
- Working as a journalist with InsIghT – the official media body of IITB