



Surendra Singh
Chemical Engineering
Indian Institute of Technology, Bombay

100020035
UG Second Year
Male
DOB: 4 July 1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.33
Intermediate/+2	CBSE	Bal Bharati Public School, Delhi	2009	84.60
Matriculation	CBSE	Shree Krishna Pranami Public School	2007	96.40

SCHOLASTIC ACHIEVEMENTS

- Secured an **All India Rank 703** in IIT JEE 2010.
- Got **0.1% CERTIFICATE FROM CBSE** in Xth class for scoring 100% marks in Social Science.
- Participated in “**Bharat Ko Jano**” (Junior category) quiz and got **first position** at **school level** and participated at district level.
- Got **1st position in C++ programming** held at Maharaja Agrasen Model School, Delhi.
- Got **2nd** position in C++ programming held at Guru Nanak Public School, Punjabi Bagh, Delhi.

PROJECTS AND WORK VISITS

➤ Snakes and Ladders Game

Sep 2010 – Nov 2010

Guided by – Prof. D.B. Phatak

- Was **one of the three group leaders** of 13 students. Co-ordinated with the others groups to make the project a success.
- Developed a **GUI based Snakes and Ladders game** on Linux platform (Ubuntu) using **programming in C++**.

➤ Industrial Training at Rashtriya Chemicals and Fertilizers Limited

Jan 2011

Guided by– Prof. Sanjay M. Mahajani, Prof. Madhu Vinjamur

- Successfully completed the **Training Programme** on ‘**Sulfuric Acid Technology with Plant Visit**’ conducted by Rashtriya Chemicals and Fertilizers Limited (RCF), Chembur.
- Studied and prepared a report on the **Double Conversion Double Absorption (DCDA)** process used for the production of sulfuric acid at RCF.

➤ Biosynth

May 2011 - Present

Guide – Prof. Sanjay M. Mahajani

- **Description** – Have been an **active member** of the organisers’ team of **Biosynth** since the summers of 2011.
- **R & D** – During this period, carried out various **lab-runs** to study the **properties of biodiesel**. Involved in **R & D work** for recovering methanol from a solution of methanol, sulphuric acid and water by **ion exchange resin method** and **neutralisation** with bases like sodium hydroxide, calcium hydroxide and potassium hydroxide. Also performed

the **viscosity testing** of the raw material for biodiesel at various temperatures for application in the plant.

- **Plant Commissioning** – Actively involved in the **commissioning** of the **Biodiesel Plant** set up in the IIT Bombay campus. Performed **hydro** and **pressure-testing** of all the equipments and pipe-lines in the plant.

POSITIONS OF RESPONSIBILITY

- Coordinator, Hospitality, **Mood Indigo, 2011.**
- Coordinator, Hospitality, **Techfest, 2011**
- Organiser, Hospitality, **Mood Indigo, 2010**
- Organiser, Hospitality, **Techfest, 2010**

EXTRA-CURRICULAR ACTIVITIES

- Built a remote controlled wireless car for the “Trackmania” event organised by the Technic Club of IIT Bombay.
- Successfully completed the NSO program in football.
- Was a part of PAF (Performing Arts Festival) of hostel 2 securing 1st position.
- Had completed NCC course for ‘A’ certificate in Air Wing under **No. 1 Haryana Air Squadron NCC Hisar** during 8th and 9th class.

PROGRAMMING AND SOFTWARE SKILLS

- Operating Systems: Windows, Ubuntu, Mac OS
- Programming Languages known: C++, HTML

COURSES UNDERTAKEN

Core course:

- Chemical Principles and Processes
- Solid Mechanics
- Transport Phenomena
- Chemical Engineering Thermodynamics
- Fundamentals of Heat and Mass Transfer

Additional course

- Economics, Computer Programming, Data Interpretation and Analysis, Differential Equations, Engineering Drawing.

INTERESTS

- Listening music, reading novels, coding and traveling.

DECLARATION

I hereby declare that the information given above is true to the best of my knowledge.

-Surendra Singh.