



**Shubham Gupta**  
**Chemical Engineering**  
**Indian Institute of Technology, Bombay**

**09002020**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 14-10-1990**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.78
Intermediate/+2	Jaipuria Vidyalaya	Central Board of Secondary Education(CBSE)	2008	92.20
Matriculation	Jaipuria Vidyalaya	Central Board of Secondary Education(CBSE)	2006	92.80

### **Scholastic Achievements**

- Secured All India Rank of 871 out of 3,84,000 (99.70 percentile) Joint Entrance Examination 2009
- Secured All India Rank of 1365 out of 10,00,000 students in All India Engineering Entrance Examination 2009
- School topper in HSc exam and was amongst top 0.1% candidates in Maths and Physics
- IITB heritage fund scholarship holder 2009-10
- Pursuing minor in Computer Science

### **Academic Project**

#### **Biosynth Project**

- Student initiative project for conversion of waste vegetable oil to biodiesel
- Worked as coordinator in research and development team
- Carried out research for increasing yield and reducing overall cost of process

#### **Numerical Analysis Project**

March 2011

*guide: Prof Mani Bhushan*

- Coded a project in Scilab to calculate solution of differential equation using orthogonal collocation and finite difference method.

#### **Mini National Unique Identity for IIT Campus students**

July-Nov, 2009

*Guide: Dr. D.B. Phatak*

- Used the object oriented programming language C++ to develop a identification system for the residents of IIT-B.
- The interface took a fingerprint as an input and issued a unique Identification number, similar to a social security number
- Used structures and classes for effective storage, analysis and abstraction of data
- The code also maintained student's database of attendance and their entry-exit timing, in and out of the lecture hall.

### **Industrial Experience**

## **Rashtriya Chemicals and Fertilizers Ltd.**

Jan 2010

Guide: Prof. Sanjay M. Mahajani, Department of Chemical Engineering, IIT Bombay

- Successfully completed the training program on “Sulphuric Acid Technology” conducted by “Rashtriya Chemicals and Fertilizers Ltd”
- Worked on **DADC (Double Absorption Double Contact)** technology to produce Sulphuric Acid for industries
- Carried out a detailed mass and energy balance for the Sulphuric Acid production plant, Prepared a report and presented the complete working of the Sulphuric Acid production plant

## **Extra Curricular/Social Activities**

- Stood 4<sup>th</sup> in wireless remote control robot competition [2009]
- Member of National Social Service (NSS) in first year
- Attended 2 days village camp trip under Group for Rural Activity for discussing about village problems and collecting basic information of villagers
- Participated in Blood donation Camp organised at IIT Bombay

## **Computer Skills**

- Programming language: C, C++, Java, MATLAB
- Software Proficiency: MS Office, Dreamweaver, Adobe Photoshop
- Operating System: Windows, Linux

## **Courses Undertaken**

Chemical Reaction Engineering	Process Fluid Mechanics
Fundamentals of Heat and Mass Transfer	Solid Mechanics
Introduction to Transport Phenomena	Chemical Engineering Thermodynamics
Introduction to Numerical Analysis	Chemistry
Introduction to Chemical Engineering	Chemical Engineering Lab
Introduction to C++	Data Structure and Algorithms
Modern Physics	Physics Lab
Data Analysis and Interpretation	Economics
Linear Algebra	Calculus
Introduction to Electrical and Electronic circuits	Complex Analysis

## **Position of Responsibility**

- **Coordinator, Techfest'11, IIT Bombay's annual Technology festival**  
Worked as the coordinator in Hospitality department of Techfest and handled the accommodation of around 4000 people, along with the team manager
- Worked as Organizer in Mood Indigo 2009
- Class representative in 12<sup>th</sup> class