



Akshansh Gupta  
Chemical Engineering  
Indian Institute of Technology, Bombay

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B.Tech.  
Male  
DOB: 18/01/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	9.05

## SCHOLASTIC ACHIEVEMENTS

- Ranked 6 in Chemical Engineering Department (Batch of 63 students)
- Currently pursuing Honours (Chemical Engineering) and Management Minor (SJMSOM)
- Awarded certificate of merit at Indian Chemistry Olympiad for being in top 1% at State Level
- Awarded CBSE merit certificate for proficiency (top 0.1%) in Science (AISSE 2006-07)

## INTERSHIPS/PROJECTS

### BIOCON PHARMACEUTICALS – BANGALORE

May'12 – June'12

*Biophysical Characterization of Monoclonal Antibodies*

*(Received Letter of Appreciation from Mentor)*

- Redesigned experiment methodology to identify active sites in protein chains with Deuterium exchange to ensure Repeatability and Reproducibility(R&R)
- Methodology adopted in Biocon R&D to test antibodies, an imperative quality check before mass production
- Implemented DOE strategy to conclude effects of various parameters like reactants and external conditions on the R&R of quality test
- Self-taught physical principles & interactions of antibodies with novel machines worth more than INR 3 crores

### PROJECT BIOSYNTH

April'10 – May'11

*Project 'Biosynth' is a student's initiative of installing a self-sustained Biodiesel plant in IIT Bombay*

- Performed extensive lab runs to understand the 1<sup>st</sup> generation method of producing Biodiesel using WVO
- Biosynth Project Assessment: Applied the tools of Project Management to prepare a comprehensive report on Work Breakdown structure, Organization Structure, Timeline and Cost Analysis
- Identified inadequacies in the protocol; improved it for better energy integration & minimum material loss
- Designed a method for quantification of undesired saponification and suggested ways to reduce it

## POSITIONS OF RESPONSIBILITY

### PUBLIC RELATIONS Manager, PIGEON

May'03 – July'04

*A unique start-up aimed at providing information across all the fields to common businessman*

- Visited and negotiated with over 5000 prospective businessmen across Jaipur city in a span of 60 days
- Converted 500 of all visits into successful enrolments leading to creation of a strong base network in the city
- Raised funds equivalent to INR 50,000 by promptly following up with all interested applicants giving a head start to the project

### MANAGER, VIRTUAL LABS

Jan'12 - Present

*Collaborative initiative of IIT Bombay with MHRD to develop minimal cost virtual experiments*

- Working in a team of 14 students coordinating with Faculty, MHRD officials and other prominent colleges
- Designing new experiments of Chem Engg to be made available to students across the country free of cost
- Mentoring student enthusiasts from various colleges to develop a complete Learning Management System including additional web-resources, video-lectures, animated demonstrations and self-evaluation
- Generating ideas for Remote Triggered Experiments, a unique approach to provide online-access to Labs

### COMPETITIONS MANAGER, AZEOTROPY

April'12 – Present

*India's largest Chemical Engineering Symposium, IIT Bombay*

- Leading a 2-tier team of 10 students to conceptualize and design new competitions
- Contributed substantially to the structuring of National Quiz, a key initiative to reach out in country
- Introducing "Experiment Design" competition in Azeotropy aimed at bringing more participation and, volunteers for Virtual Labs

## EXTRACURRICULAR ACTIVITIES

- Topped the class in 'A' Level German course conducted by DAAD at IITB scoring 100% marks
- Won 2<sup>nd</sup> Prize for presenting "Vision 2020, Jaipur" in a state level competition, presentation was widely appreciated by adjudicators as being innovative and pertinent