



Siddharth Jain
Chemical Engineering
Indian Institute of Technology, Bombay
Specialization: None

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UG Third Year (B.Tech.)
Male
DOB: Oct 3, 1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.89
Intermediate/+2	CBSE	Standard Public School	2010	91.40
Matriculation	CBSE	Bhavans Prominent School	2008	88.40

ACADEMIC HONOURS

- Qualified the **first phase** (state level) of NTSE (National Talent Search Examination) organized by Central govt. and represented state at national level in year 2008
- Secured an extra-ordinary score of **134 out of 162 in chemistry** in IIT JEE-2010, getting into the ranklist of **All India top 10** for the subject
- Ranked 1st** (year 2001) and **2nd** (year 2002) in the **Cadbury Bournvita Quiz Contest** organized by Cadbury India at the state level
- Received an **yearlong scholarship** from TIME Institute, Hyderabad for excellent performance in their pre-engineering exams, for the session 2010-11

CONFERENCES

- Invitee** to the **ShARE World Conference 2011 held at IIM Bangalore** in December for presentation of the output of the project “Algae based Biofuels Extraction in India”
- Runner-up**, among 22 teams from IITs, IIMs and DSE, of the **financial simulation game ‘Eurocrisis’** at ShARE World Seminar 2011 based on Smart Investing, in the critical market of European countries which caused recession, to maximise the portfolio value
- Attended the **Harvard US-India Initiative conference** on Social Entrepreneurship and participated in the design workshop applied in improving the design of the existing cycle-rikshaws in Delhi

INTERNSHIPS

- Optimization of Composite Laminates** [Dr. Angela Vincenti, May-July 2012]
At Institut Jean le Rond d'Alembert, Universite Pierre et Marie Curie – Paris 6
 - Introduced to theoretical aspects of composites, modelling and optimization algorithms
 - Worked in the area of analysis and design of composite laminates with elastic and thermo-elastic couplings to **minimize weight given coupling effect is maximized**
 - Calculations were also done in order to **find the angle orientations** for different layers (upto 8)
 - Designed a helicopter blade laminate** using the above two results given the practical loading conditions and made it physically in lab to test it for the properties and simulation results
- Pioma Chemtech Incorporation, Ujjain** [May-July 2011]
Pioma Chemtech Incorporation is a manufacturer, re-packer and exporter of many allopathic drugs, ayurvedic drugs, industrial chemicals and polymers
Recycle of Copper from waste copper mud by converting into hydrated copper sulphate crystals
 - Designed a protocol** for extracting copper from an industrial waste locally known as copper mud
 - Analyzed the composition of copper mud and **developed a process of extraction** using sulphuric acid
 - Performed extensive experiments to optimize the concentration of acid to get **65-70% yield** and approximate **95% purity** of hydrated copper sulphate crystals
 - Proposed mechanisms like selective salt crystallization** (using suitable base) or use of CaO before filtration to reduce the amount of acid in the final crystallized product
- Channel [V], Mumbai/Goa** [Jan-Feb 2011]
IndiaFest, a Channel [V] initiative supported by Star TV, is an inter-collegiate festival, whose first edition was held in year 2011 in Goa with a budget exceeding INR 30 million
 - Part of the team that established a **country wide campaign of 500 brand ambassadors** for the initiative ‘Youth for Change’
 - Part of the Events team drafted from the channel’s programming & marketing departments and an **international management firm** to execute first ever IndiaFest
 - Publicized and executed over 30 international and national performances** like the Juggling Festival, ‘Desi Tadka’ and interactive workshops in collaboration with the team

PROJECTS

1. **BioEthanol Plant: Associative Project Between IITB & American NGO 'TaO'** [July'12 to date]
 - Part of the team designing a plant to produce bioethanol from market yard waste
 - Involved **literature survey and lab experiments** for manufacture & analysis of Bioethanol
 - Future work involves structuring of the complete process protocol and thereby designing an economically feasible pilot scale plant
2. **Algae based Biofuels Extraction in India** [ShARE Knowledge Network, Aug'11 to Dec'11]
 - **Studied literature and case studies** on production of biodiesel in India and made a **detailed report & presentation** on methods of extraction from micro-algae, presented in IIM-B
 - Study involved cultivation of algae in controlled conditions, growing the desired algae in uncontrolled conditions, protecting contamination of undesirable species etc.
3. **Training at Sulphuric Acid Plant** [Course Project, Prof. Vinjamur Madhu, Feb' 2011]
 - Attended the **Training Programme** at RCF (Rastriya Chemicals and Fertilizers Ltd.) and studied the entire process, from **manufacturing to purification** of the acid
 - Prepared a detailed project report on manufacturing of sulphuric acid encompassing mass and basic level energy balances
4. **Basic Banking Structure and Management** [Course Project, Prof. D. B. Phatak, 2010]
 - Designed a bank management system on **graphical interface** using C++ and EzWindows
 - Coded operations like account management, interest calculation, statement generator etc.
5. **Tourism Website Development** [Dec' 09-Feb' 10]
 - **Developed** a website using **Dreamweaver** suitable for state's tourism department under a school project, within a team of 4 members and a mentor
 - **Designed** a '**route finder**' which could automatically find all roads/trains between two places and a '**Plan my Trip**' which could create multiple 'round trip' tour options on selecting the locations

COMPUTER SKILLS

- Programming Languages: C++, Mathematica, Matlab, Scilab
- Application Software: Abaqus, Microsoft Office, HTML, Basic Dreamweaver

POSITIONS OF RESPONSIBILITY

1. **Confirmed Member, Energy Network, ShARE IIT Bombay Team** [Sept '11 to date]
ShARE is an international non-profit student organisation that connects students to World Class companies, researchers and organisations to tackle global economic, energy and social issues (www.share-share.org)
 - **Head** of a team of 4 members working on projects like **Hydrogen based commercial vehicles etc.**
 - Promoted Network in institute by arranging quiz event, 'Ask a question' sessions etc. with Avenues'11
2. **Maintenance Secretary of the Hostel** [July 11 to April 12]
 - **Managing** a budget of more than INR 500,000 for the smooth functioning of the hostel's infrastructure accommodating over **475 students**, in a team of 3
 - **Conceptualized and implemented** ID card based issuing of unclaimed and unused cycles for general use, thus **introduced cycle pool** in the hostel for the first time
 - Co-ordinated with SARC for the Project Laundromat to introduce cloth-dryers in hostel
3. **Co-ordinator of Creatives department in Mood Indigo 2011**
 - Lead a team of 7 organizers for better ideas, implementation and event management
 - Handled the poster designing, wall painting, ambience and online publicity of MI

EXTRA CURRICULAR ACTIVITIES

1. **SPORTS SKILLS:**
 - Played cricket up to **semifinals** in **CBSE clusters 2005** at district level for school
 - **Qualified** for **district level swimming** for school in the year 2006
 - **B-certificate** holder in **National Cadet Corps** at 2 MAH ENGR REGT NCC, IIT Bombay
 - Active member of the Institute skating Club
2. **CULTURAL SKILLS:**
 - **Awarded PAF Special mention** for commendable work in Production in PAF'12
 - **Handled lights** (fitting and operations) and acted as Materials In-charge in PAF'12
 - Acted in the second prize winning dram in Freshiezza