ARPIT JAIN

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EDUCATION

Examination	University	Institute	Year of Passing	CPI/%
Graduation	IIT Bombay	IIT Bombay	2012	7.72/10
Intermediate+2	CBSE	DAV Public School	2008	91.0%
Matriculation	CBSE	A.E.C.S. No. 4	2006	94.0%

SCHOLASTIC ACHIEVEMENTS

National	• All India Rank 712 among 3,20,000 examinees of the IIT JEE, 2008.			
Competitions	All India Rank 6 in NSTSE, 2006 conducted by <i>Unified Council</i> , Hyderabad.			
•	• Runner up in <i>Inter Zone</i> Hindi Science Quiz Contest organised by <i>AEES</i> all over India.			
Major Scholarships	 National Talent Search (NTS) Scholarship (2006): Awarded to top 750 students in India by NCERT. 12th rank in STSE (2006), felicitated by Governor of Rajasthan Rajasthan Talent Search Examination conducted by Saraswati Siksha Sansthan, Jaipun (Raj.): State rank-4 and 5 in 2005 and 2006 respectively. 			
	• Entered to the Interview round of KVPY , renowned scholarship at the national level			
National Olympiads	 Awarded silver medal in National Mathematics Olympiad in 2003, 2005, and 2006 conducted by All India Schools Mathematics Teachers Association. Honourable mention in Junior Science Olympiad, 2005 conducted by HBCSE. 			
	• Stood among 1% in National Physics Olympiad, 2008.			

INTERNSHIPS

Tata Steel, Jamshedpur

May-July 2011

Solvent Extraction of coal: Optimizing feed composition

- Extensive experimentation was carried out with proper planning and *Design of Experiments* as well as data analysis was done using Statistica software
- Optimized co-solvent to solvent ratio to obtain maximum yield and minimum ash content
- Brought down the **coal to total solvent ratio from 1:10 to 1:6** thereby saving the recovery costs of solvent and making the process **economically cheaper**
- Initiated work on old coal which led to decrease in ash by 4% thus **enhancing the profits** considerably
- Proposed separate extraction of finer particles thus further reducing the ash content
- Recommended experiments at lower operating temperature leading to huge energy savings

Institute of Oil and Gas Petroleum Technology (IOGPT), ONGC, Mumbai

May-June 2010

Development of Scale Inhibitor for the treatment of calcium carbonate scale

- Studied about various parameters responsible for calcium carbonate scale
- Researched on various polymers & phosphonates and experimented to suggest the scale inhibitor with **95% efficiency** thus saving outsourcing costs for cleaning the oil pipe lines in sea water
- Optimized the dosage and the composition for the maximum efficiency

KEY ACADEMIC PROJECTS

Biodiesel Plant-Project BioSynth

May 2009 to April 2011

IIT Project Biosynth is a student's initiative of setting up a Biodiesel production facility to generate Biodiesel from waste oil on IITB campus (http://www.biosynthiitb.com/)

- Involved in extensive laboratory experiments, equipment design, process flow, piping and instrumentation and in reviewing the inspection documents for plant parts
- Diligently looked after safety aspects participating in HAZOP study and interacting with experts
- Participated in the **installation** and **commissioning** process of our plant as well as the plant at Tara village
- Supervised projects like conversion of batch plant to continuous and life cycle assessment
- Received the award for innovation and research in the field of Green Chemistry and Engineering in the students' category at IGCW 2009 as part of the BioSynth team

India Energy Forecasting

- Developed a model equation for energy demand in India based on the past GDP and population trends
- Analysed agricultural, service and industrial sector in detail

POSTIONS OF RESPONSIBILITY

Manager, Design and Production, Team BioSynth, IIT Bombay

April 2010 to date

- Led the 10 member Design and Production team, one of the three departments of BioSynth
- Successfully coordinated and troubleshooted activities on various fronts such as site setup & fabrication
- Managed the installation, and commissioning process and also undertook decisions on piping
- Lectured the team on PFD, AutoCAD etc. and interviewed the new team members

Coordinator-Hospitality and Assistance-Mood Indigo (Annual Cultural Fest of IITB)

December 2009

• Managed the database of participants and solved the issues of accommodation

Vice Captain, Tilak House Atomic Energy Central School No. 4

July 2005 to March 2006

- Served as a link between the student body and the faculty
- Responsible for the **conceptualization** and **smooth execution** of extra-curricular and sports Events
- **Initiated** a new 'Wall Magazine' competition thereby attracting huge student participation
- Led my House to win several major trophies by instilling and maintaining high enthusiasm all year round