



Hitesh Lalwani
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: Computer Aided Designing & Automation

07d10012
Dual Degree(B.Tech + M.Tech)
Male
DOB: 17/03/1989

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.76
Intermediate/+2	Maharashtra State Board	DACN	2007	84.67
Matriculation	CBSE	Bhavan's	2005	93.60

SCHOLASTIC AWARDS AND ACHIEVEMENTS

- Awarded **AP grade** (1st recipient in last 4 years) for exemplary performance in a course on **Optimization** ('10)
- Awarded a **Gold medal** (top 15 students in India) in the Indian National **Chemistry Olympiad** ('07)
- Received the **CBSE Merit Scholarship** for 4 consecutive years for securing All India Rank 127 in AIEEE ('07)
- Ranked **12th in India** in National Science Olympiad and among **top 1%** in Indian Physics Olympiad ('07)
- Awarded the C. Subramaniam **Gold medal** for excellence in academics and character ('04)

POSITIONS OF RESPONSIBILITY

Manager, Events, Techfest 2010

(Mar '09-Jan '10)

Part of a **22 member core team** responsible for conceptualization and execution of Techfest 2010, Asia's largest Science and Technology Festival with a footfall of 75,000 students and a budget of INR 10.3 million

Leadership

- Led a **2-tier team of 120 students** to organize 5 flagship competitions and 16 On-the-spot events
- Pioneered the association with Logic Masters India to organize the **Indian leg of World Sudoku Championship** for the first time in any college festival in India
- Directed a team of 9 from NIT Calicut to conduct the South leg of 'Nexus', the National Robotics Challenge

Initiatives

- Strategized a **5 party international collaboration** from Australia, UK and India to set up India's 1st ever temporary setup of **Laser Tag** (Hi-Tech laser combat arena) as the **featured attraction**
- Opened participation avenues for **110 more institutes** by inducting Architecture and Designing in competitions
- Conceptualized Energize – a **techno-entrepreneurial** initiative for innovation in Renewable Energy sources
- Conceived and conducted the Energy Saving Championship; reduced IIT B's electricity bill by **INR 374,000**

Manager, Security, Techfest 2011

(Nov '10-Jan '11)

- Coordinated with the **Mumbai Police and Internal Security** to streamline the process of managing security across 13 major venues over 3 days, resulting in a smooth and incident-free festival
- Planned and organized the security layout for international exhibits worth over **INR 9 Million**
- Introduced additional security measures like midnight patrolling to allay the concerns of international guests

Company Coordinator, Institute Placement Team

(May '11-till date)

Part of 31 member team to primarily interact with potential recruiters and formulate placement policies for 1400 students

- Initiated discussions with more than 150 Indian and overseas potential recruiters; arranged pre-placement talks and acting as an interface between students, companies and authorities
- Successfully identified **alumni contacting** as a potential source of getting more companies

INDUSTRIAL EXPERIENCE

Tata Consultancy Services, Complex Decision Support Systems Division

(May '10-Jul '10)

Prediction Markets, A Forecasting Technique

- Researched and analyzed the extensive literature available on prediction markets' history and applications
- Conceptualized and developed a **model** to setup an **Internal Prediction Market** for the company
- Identified areas where prediction markets can be used, ways to interpret its outcome, techniques to **improve accuracy and speed**; presented the findings to the **Vice President of TCS**, CDSS Division

- Developed a software for **Automated Prediction Markets** -the latest and most flexible innovation in the field

COMMUNITY DEVELOPMENT PROJECTS

Analysis of the Prices of Medical Supplies in India

(May '11-till date)

- Analyzed the selling price of drugs to **identify spikes in prices** at different levels of their supply chains
- Identified schemes on drugs and retailer margin on surgical items to be major reasons for high prices
- Currently coordinating with the **Consumer Guidance Society of India** to prepare a road map for increasing consumer awareness and empowering them

Performance analysis of Vertical Shaft Brick Kiln (VSBK)

(May '11-Jul '11)

- Compiled technical, financial and managerial data from 8 different kilns through telephonic interviews and visits to kilns; visited **Gram Vikas in Orissa** to understand working of the kiln
- Performed a **break even analysis** to suggest an optimum action plan for a kiln's financial success
- Compared the 4 different managerial structures on various performance metrics to suggest the best practices from each structure; presented the findings to the VSBK group of IIT Bombay

KEY ACADEMIC PROJECTS

Dual Degree Thesis – Optimizing the logistics to reduce carbon footprints

(May '11-till date)

- Investigated the various sources of emissions in a supply chain and identified logistics as a major contributor
- Modelling the carbon emissions resulting from logistics and warehousing in a supply chain

Collaborative Engineering - Transport for farming level of a vertical city

(Jan '11-Apr '11)

- Conceived 5 feasible designs for the futuristic transportation system through intensive brainstorming
- Evaluated the designs using Analytical Hierarchy Process(AHP) and modelled the selected one in AutoCAD
- Optimised the design by detailed Failure mode effect analysis(FMEA) and presented the entire design process through an automated video presentation; secured **2nd position** in a class of 65 students

Managerial Finance – Cost of Capital

(Jan '09-Apr '09)

- Assessed the cost of debt and the cost of equity using Gordon Growth Model and CAPM
- Calculated Weighted Average cost of capital and proved the importance of optimal mix of financing for a firm to minimize its cost of capital

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

Netapedia

(Apr '11-till date)

Netapedia aims to provide authentic profiles of Indian politicians and political analysis to facilitate informed participation from citizens in the democratic process

- Building a comprehensive political information system by the data obtained from filing RTIs and the Election Commission of India
- Devising novel presentation techniques and interactive web content to generate and sustain high traffic

Indian Youth Climate Network - Prayatna

(May '11-Aug '11)

Prayatna is a guide to sustainable living for educating the youth in various schools and colleges in India

- Developed the content for sustainable use of water covering its present status, challenges and solutions
- Included creative games and activities, action projects and case studies to educate in a fun manner

Sports

- Participated in the west zone (a zone of 6 states) Handball Competition organized by CBSE (2004)
- Key player of the teams that secured 2nd position in District Handball and 3rd in District Kho-Kho (2004)
- Actively participated in Football, Hockey and Cricket for the hostel in General Championships in IIT

Others

- Successfully scaled **Sarpass** (13800 ft) with a 50 member group, a 11 day trek organized by YHAI
- Selected for **Tata Jagriti Yatra** - an 18 day train journey across India for experiential learning
- Currently working as an outstation volunteer at **Harvard Project for Asian and International Relations**