



Parth Bhatia
Energy Systems Engineering
Indian Institute of Technology, Bombay
Specialization: Energy Systems Engineering

10D170003
UG Second Year
Male
DOB: 23/10/1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.89

Int
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Academic Distinctions:

- Winner of **Physical Research laboratory, Ahmedabad** Scholarship (awarded to only 5 students from all over Gujarat) and 1st in Maths Poster Making Competition for the same
- Attended a 3 day youth leadership conference, **Youth for Leadership in Science 2008** in the Central Salt and Marine Chemicals Research Institute, Bhavnagar along with more than **100** board toppers from Gujarat
- Cleared NSEP (top 1% in the state) organized by Indian Association of Physics Teachers, and appeared for the Indian National Physics Olympiad conducted by HBCSE, TIFR.
- Secured **AIR 882** in IITJEE and **AIR 1233 in AIEEE**(state rank 29)
- Awarded **top 0.001** percentile certificate in **Computer Science** in CBSE 12th Board

Projects:

- **Smart Home Automation System using MAS approach:** [Dec-2011-current]
Under the guidance of Professor Suryanarayana Doola
 - Working towards simulating an interaction between physical devices in homes
 - The objective is to create a system that intelligently controls home appliances to optimise energy usage and comfort for home owners
 - This project could further be developed to allow users to interactively communicate with home appliances via the internet
- **Energy Harvesting** using piezoelectric material: [2011]
Under the guidance of Professor Rangan Banerjee
 - **Conceptualized and successfully** created a device that harvests energy from raindrops using piezoelectric material and **applied** this concept to low-power consuming sensors
- **C++ programming:** [2011]
Under the guidance of Professor R.K. Joshi
 - Designed the popular math game “GO FIGURE” using C++ programming and added graphics using Flashlight Tool Kit(FLTK) on a Linux platform

ShARE:

- **Network Manager-Energy, ShARE IIT Bombay** [Sept 2011- current]
 - ShARE is an international student organisation that connects students to corporate and social leaders to undertake projects concerning social and economic issue
 - Responsible for the performance and output of a team of five members undertaking making presentations in the energy field
 - Gained valuable management skills, team skills, leadership skills and presentation making skills and experience of working under pressure and deadlines
 - Will lead them in global level inter-collegiate consultancy style projects given by companies

Technical Achievements:

- **Industrial Visits:**
 - Visited the **Tata Power Plant** at Chembur, Mumbai and submitted a report on the basic working of a power plant as part of a course
- **IIT StudE Club Workshop:**
 - Received “*Certificate of Excellence*” (in a team of 3) awarded to **7** out of **60** students for developing a MATLAB based carbon footprint calculator project within one week of being taught the software

Courses Undertaken/Pursuing:

- **Mathematics:** Calculus, Linear Algebra, Differential Equations, Numerical Analysis
- **Computer Science:** Computer programming and utilization
- **Department Courses:** Thermodynamics, Basic Electrical Engineering, Energy Fundamentals, Electronics, Power Electronics, Materials for Energy Applications
- **Other courses:** Economics, Chemistry, Electricity and Magnetism, Philosophy
- **Lab Courses:** Engineering Drawing, Mechanical workshop, Chemistry, Physics, Basic Electrical Engineering Lab, Instrumentation and Measurements Lab
- **Minor:** Discrete Structures, Data Structures and Algorithms

Positions of Responsibility:

- **Convener, Energy Club IIT Bombay** [Nov 2011-current]
 - Helped conceptualise and formulate the basic structure of the Energy Club
 - Currently planning activities to promote interest in Energy field and sustainability in the institute
- **Hostel Cultural Secretary** [July 2011-current]
 - Coordinated with 9 other people to successfully organize cultural events of different genres for a hostel of 450 students
- **Coordinator, Mood Indigo 2010** [2011]
 - Enthusiastically contributed to conceptualize and execute events such as Team Games and MI Records for Mood Indigo, Asia’s largest cultural festival

Extracurricular Activities:

- **Awards and Achievements**
 - Received **Hostel Special Mention** for technical activities in 1st year
 - Part of NSO football, instrumental in winning 3rd place in Institute Football League
 - Won athletics, quizzing and chess tournaments at school level
 - Apart from being an active member of debating society and speakers club, also represented IITB at IIT Delhi National Debate 2011 and RVCE National Debate
- **Interests**
 - Programming and Computer proficiency: C++, HTML, MS Excel, MS Word
 - Basic knowledge: MATLAB, LABVIEW, Sequel(Circuit simulator by IIT Bombay)
 - Currently learning: French, Java, CSS, Photoshop
 - Regularly play the guitar, tennis, football
 - Avid reader, environment enthusiast and blogger