

Abhimanyu Dhariwal Energy Systems Engineering Indian Institute of Technology, Bombay

10D170014 UG Second Year Male

DOB: 02/11/1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	9.44
Intermediate/+2	HSC	Sathaye Junior College	2010	92.67
Matriculation	ICSE	Lokhandwala Foundation School	2008	96.29

Scholastic Achievements

• Ranked 1st in the Department of Energy Science and Engineering, IIT-Bombay.

(2010-present)

• Secured an All India Rank of 414 in IIT-JEE out of 0.45 million students.

(2010)

• Secured an All India Rank of **274** in AIEEE out of **1 million** students.

(2010)

Top 1% nation in National Standard Examination in Astronomy (NSEA) Sr. - qualified for Indian National
Astronomy Olympiad (INAO)

• Top **1% nation** in National Standard Examination in Chemistry (NSEC) - qualified for **Indian National**Chemistry Olympiad (INChO) (2010)

• Top 1% state in National Standard Examination in Physics (NSEP)

(2010)

• **ASSET** (Assessment of Scholastic Skills through Educational Testing) **Winter 2005** – Awarded with a book prize for being one of the **top 10** students, **overall**, in class 8 in India.

Academic Projects

• The Greener Bicycle

(*January* 2011 – *April* 2011)

- ➤ Under guidance of *Prof. Rangan Banerjee*
- > Innovated and fabricated a device for a bicycle (in a team of two), comprising of a movable system of a wheel and motor assembly, operated by a gear mechanism, which can be used to **generate electricity while braking**.
- > Electricity generated was used to power a mobile charger or brake lights.
- ➤ This project won the *first* prize in the competition "Fission Impossible" of **Malhar**-2011 (*August*) (College fest of St.Xavier's College) in which the projects had to be innovative, creative models or designs that would help *in progress &/ survival of humans in future*.
- ➤ Improved the design of the device for the competition 'EARTH' of **Techfest-**2012 (Science and Technology festival of IIT-Bombay) and qualified for its finals. (*January 2012*)

• Typing Tutor (March 2011)

- > Under guidance of Prof. Rushikesh Joshi
- ➤ Programmed an interactive visual typing tutor using C++ and *FLTK* graphics which would test the user's typing skills over a timed session.

Summer Project

Light following and obstacle avoiding robot

(June 2011)

- ➤ Under guidance of *Electronics Club* of IIT Bombay
- ➤ Devised an autonomous robot during the summer break which involved usage of light sensors, distance sensors, micro-controllers and *Arduino* coding.
- ➤ The robot moves in direction of light while at the same time avoids hitting obstacles in its path.
- ➤ The project was one of the 25 odd completed projects and was completely done by a group of four 1st year students under an assigned mentor.

Co-curricular Activities

- Designed and made a **line-following maze solving** robot using **white-line sensors** for the regional round of a national competition called iNexus. (*September 2011*)
- Visited **Tata Power Plant** in Mumbai for industrial visit and prepared a working report. (*March 2011*)
- Demonstrated **solar cooking** along with batch mates using different types of solar cookers, namely Box type and Parabolic dish and prepared a detailed report for the same. (*February 2011*)

Important Courses Taken

- Basic Electrical Engineering, Thermodynamics and Energy Conversion, Energy Engineering Fundamentals.
- Economics, Data Analysis and Interpretation, Computer Programming and Utilization, Environmental Studies (scientific and economic perspectives), Psychology
- Electronics, Power electronics and machines, Material science for energy applications. (to be completed by April 2012)
- Discrete Structures, Data Structures and Algorithms as *minor* courses in Computer Science and Engineering.

Computer Proficiency

- C++, Java programming languages
- SEQUEL Electronic Circuit Simulator, LabVIEW
- MATLAB computing software

Positions of Responsibility

• Hostel Mess Secretary

(April 2011-present)

- Currently holding this post of Hostel 3 which involves insuring smooth functioning of the mess that caters to over 500 students.
- ➤ **Pioneered** the concept of providing menu information and collecting feedback on a real time basis using online and SMS channels
- Organizer, Mood Indigo 2010
- Co-ordinator, Mood Indigo 2011
- Responsible for ideation and execution of mega events like 'How sense-able are you?' and 'Hog-a-thon' which were attended by over 150 people.

Extra-curricular Activities

- Junior Member of the **ShARE-IITB** Chapter under the Energy Sector and currently making a presentation on 'Hybrid Cars in India'. ShARE is an *international student organisation* which connects talented students to corporate and social leaders to discuss world economic issues. (September 2011-present)
- Won the preliminary round of the **Bournvita Quiz Contest** (General knowledge) in a team of 2. (2004-05)
- Qualified for the TV rounds of **India's Child Genius** (on **Star World**). (episode #15 August 22nd,2004)
- Completed a course in playing synthesizer (piano) and passed level **basic I** exam with 75% final marks. (2002)

Additional Points

- Completed pre-primary, primary and secondary education in **7 schools** over **3 countries** Thailand, Indonesia and India.
- Keen interests in Formula One, adventure sports, numismatics, philately.
- Plays sports like lawn tennis, badminton, swimming regularly.