



Amit Maurya
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: none

100100009
UG Third Year (B.Tech.)
Male
DOB: 03/06/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.02
Intermediate/+2	CBSE	Vidyamandir Sr. secondary school	2010	85.40
Matriculation	Maharashtra State board	Queen Mary's High School	2008	91.69

SCHOLASTIC ACHIEVEMENTS

- Secured an **All India Rank 1964** in IIT-JEE 2010 which is among **top 0.5 % of participants**.
- Achieved a **percentile of 98.7 %** in ALL INDIA ENGINEERING ENTRANCE EXAMINATION (AIEEE) conducted by CBSE, New Delhi in 2010.
- Achieved a **percentile of 99.9%** in ISAT-2010 conducted by Indian Institute Of Space Science and Technology.
- Received “**Best Student of the Year**” Trophy for all round performance in Academics and Co-curricular activities in STD. X in the year 2008.
- Secured **Rank 25** and **cash prize** in Maths Talent Search Examination (MTSE) in 2007.

PROJECTS UNDERTAKEN

- **Robotic Dredger** Guide : Prof. C. Amarnath Summer 2012

Built under UMIC@IITB, it is an assembly of mechanical parts mounted on a two-hull boat which can dig, transport and dump a certain amount of underwater sediments of a lake from bottom to the shore. It was designed and simulated in Solid works and AutoCAD.

It is remote controlled and was successfully tested in pond near Jal Vihar Guest house in IIT Bombay.

- **Track signaling and Layout study** Guide : Prof. Narayan Rangaraj (IEOR) Summer 2011

Field visits to various important terminal stations on suburban section of Western Railways for comprehensive understanding of turnouts, signals and their combined effect on daily schedule of **Local Trains** of Mumbai. Also visited TMS [**TRAIN MANAGEMENT SYSTEM**] at Mumbai Central and Railway car-shed in Kandivali.

Proposed many ways to handle traffic of increasing population of Mumbai on the basis of statistics, technical study and data collected during field visits.

COURSES DONE

- **Core Courses:** *Kinematic and Dynamics of machines, *Applied Thermodynamics, Manufacturing Processes , IEOR, Fluid Mechanics , Strength of Materials, Solid Mechanics, Heat transfer, Thermodynamics, Engineering Mechanics.
- **Mathematics:** Calculus, Linear Algebra, Differential Equations, Numerical Analysis.
- **Others:** Introduction to Electrical and Electronics Circuits, Power Electronics, Digital Electronics ,Analog Electronics, Computer Programming and Utilization, Economics, Engineering Metallurgy, Modern Physics , Chemistry , *Environmental science and Sociology.
- **Lab Courses:** Experimentation and Measurement Lab, Physics Lab, Chemistry Lab, Engineering Graphics and Drawing, Fluid Mechanics lab, Solid Mechanics Lab, Manufacturing Practice Lab and *Kinematic and Dynamics of machines lab.

Note: *to be covered in sixth semester in spring 2013.

SOFTWARES AND PROGRAMMING SKILLS

- **LANGUAGES:** C/C++, HTML.
- **Operating Systems:** Windows, Linux.
- **SOFTWARE:** Solid works, AutoCAD, Photoshop.

POSITION OF RESPONSIBILITY

- **Marketing manager**, Radiance 2013, Department technical festival. (August 2012-present)
- **Literary Arts Secretary** of Hostel 7. (2011-2012)
Led the Hostel to a **top 3 position** in the inter-hostel literary arts General Championship **after a gap of many years**.
Managed library, literary corner and published annual hostel magazine of the hostel.
- **Coordinator**, Marketing, **Entrepreneurship Cell**, IIT Bombay. (2011-2012)
- **Coordinator**, Marketing, **Mood Indigo**, Asia's Largest College Cultural festival. (2011-2012)
- **Organizer**, Ozone, **Techfest**, Asia's Largest College Technical festival, 2011.
- **Organizer**, Horizons, **Mood Indigo**, Asia's Largest College Cultural festival, 2010.
- **Class Representative** in the school for three consecutive years 2006,2007, and 2008.

EXTRA CURRICULAR ACTIVITIES

- Won '**Mystery Box**' **competition** at Radiance 2012.
- Was part of winning team of **Wolfpack Quiz GC** (2011-12) at IIT Bombay.
- Made a line following **autonomous bot** using Arduino in Line follower competition,2010
- Made a small **wireless car bot** using RF (Radio Frequency) circuit in 2010
- Was part of the only team among all freshmen in 'Freshiezza Drama Competition-2010' with their own script and storyline .
- Actively participated in Performance Art Festival-2011 and 2012 of IIT Bombay.
- Received numerous medals in school for various events like Debate, Quiz, Extempore, Athletics, etc. at intra and inter school level.