

Yash Tambawala

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EDUCATION

Indian Institute of Technology	2010-2015(Expected)
Third Year Undergraduate	
Major: Energy Engineering	8.86/10
Minor: Electrical Engineering	9.75/10
Sathaye Junior College	2008-2010
Intermediate(+2)	89/100
Chatrabhuj Narsee Memorial School	2008
Matriculation	96/100

SCHOLASTIC ACHIEVEMENTS

- Secured an All-India-Rank of 945 in IIT-JEE 2010 out of 0.4 million students.
- Secured an All-India-Rank of 646 in AIEEE 2010 out of 1 million students.
- Placed in the top 1% in the state round of the Indian Physics Olympiad and Indian Chemistry Olympiad.
- Secured the highest grade in the course “Introduction to Renewable Energy Technologies”, reserved for the top 1% of the class for exceptional performance.
- Attained the first position in school in the matriculation examination out of 300 students.

WORK EXPERIENCE

University of Alberta	
Summer Intern, Advanced Control System Laboratory, Edmonton, Canada	May'13-July'13
<ul style="list-style-type: none">• Worked in the area of system identification on a company sponsored project that involved the mathematical modelling of the performance of a bench-top wind turbine.• Recommended several techniques to significantly improve the performance of the wind turbine unit.	

Applied Materials Inc.

Summer Intern, Advanced Technology Group, Mumbai, India	May'12-July'12
<ul style="list-style-type: none">• Created and presented a market research report on the opportunities in the Medical Devices sector in India for internal use of Applied Ventures LLC, the venture capital fund of Applied Materials. This assignment involved making recommendations to senior managers based on research findings and ensuring the validity of data reported.• Developed an application for automated crystalline volume fraction analysis of microcrystalline silicon using Raman Spectroscopy data in MATLAB through nonlinear regression techniques.• Conducted the process optimization and literature survey of zinc oxide deposition on silicon substrate via Atomic Layer Deposition (ALD) for use in transistors.	

EXTRA-CURRICULAR ACTIVITIES

Quizzing & Literary Activities

- Won the first prize in the All-Mumbai Science Quiz organized by the Nehru Science Centre, in which over 200 schools had participated in 2008.
- Won the third prize in the All-India College Students Essay Competition, organised by IIT-B on the topic “Gandhiji and Contemporary Society” in 2010.

Debating & Speaking related Activities

- Participated in Dialectics, a national level debating tournament held in Delhi, organized by Miranda House of Delhi University in 2011.
- Successfully completed a public speaking course conducted by the Indo-American Society in 2011.

Sports

- Completed a 26-day Basic Mountaineering Course, conducted by Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports, Himachal Pradesh in 2011.
- Selected for the National Sports Organizations program in basketball at IIT-B for the academic year 2010-11.

PROJECTS

Energy and rural development

Supervised learning project under Prof. Priya Jadhav

Jan'13-ongoing

- Acquiring first hand information from rural consumers in Maharashtra, both commercial and residential, about the role of energy in their lives.
- Analyzing correlations in energy usage and development through socio-economic data with a focus on rural areas.

POSITIONS OF RESPONSIBILITY

Editorial Board, Insight: Student Media Body of IIT-B

April'12-April'13

- Part of the editorial team of Insight which covers campus issues pertaining to students through the print and online medium.
- Brought about reforms in the management of student technical projects in the institute after in depth coverage and analysis.
- For exceptional performance as a journalist, received the first-ever and highest award for journalism in the institute, **Institute Journalism Colour**, which was awarded to only one student in the academic year.

Institute Student Mentor

July'13-ongoing

- Chosen as one out of 80 senior students capable of guiding first year students under the aegis of the Student Mentorship Program, IIT Bombay.
- The role involves enabling first-year students to have a smooth transition into campus life and inculcating the right attitude in them from the beginning.

Teaching Assistant, English Remedial Program

July'11-Nov'11, July'12-Nov'12

- Chosen as one of the six teaching assistants for the English Remedial Program for weak students for two consecutive years.
- Devised techniques for teaching basic grammar and communication skills to a class of 30 students which helped them in cultivating their public speaking and conversation skills.
- Rated as one of the best tutors for this program via professor feedback and student ratings.

Department Academic Mentor

July'12-ongoing

- Mentoring of academically weak students to improve their performance by resolving issues in the academic as well as the non-academic domain.

KEY COURSES

- **Energy Engineering:** Energy engineering fundamentals, Power Generation and Systems Planning, Electrical Energy Systems, Introduction to Renewable Energy Technology, Energy and Climate, Thermodynamics, Equipment Design and Control.
- **Electrical Engineering:** Minor in Electrical Engineering with excellent performance in the four courses completed: Signals and Systems, Controls and Communications, Analog Electronics and Digital Electronics.
- **Other Courses:** Economics, Data Analysis and Interpretation, Computer Programming and Utilization, Thin Film Physics and Technology, Numerical Analysis, Reading Literature.

COMPUTER SKILLS

Languages & Software: C, C++, MATLAB, Mathematica, LabVIEW, MS Office, SPICE, HTML, CSS
Operating Systems: Windows, Ubuntu(Linux OS)
