



Tejas Kolhe
Energy Systems Engineering
Indian Institute of Technology, Bombay
Specialization: Energy Systems Engineering

10D170010
UG Third Year(Dual Degree)
Male
DOB: 04/11/1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.05
Intermediate/+2	H.S.C.	A. Garware college	2010	86.83
Matriculation	S.S.C.	R. R. Vidyalaya	2008	90.30

Scholastic achievements

- Selected in state round in National talent search examination in 2008
- Secured state rank of 256 in National science Olympiad in 2008
- Achieved state rank of 23rd in Maharashtra talent search in 2007

Projects undertaken

- **Maximum Power Point Tracker** [Mar'-Apr'12]
[Guide- Prof. Rajesh Gupta]
 - Designed and implemented a circuit and algorithm for tracking the maximum possible power output of solar photovoltaic at all the time and for any weather conditions
- **Solar tracker** [Mar'-Apr'11]
[Guide- Prof. Rangan Banerjee]
 - Built a time based one-dimensional Solar tracker device which features the orientation of solar Photovoltaic in direction of sun
- **Interface of features of game DX ball** [Feb'-Mar'11]
[Guide- Prof. Rushikesh Joshi]
 - Developed the program in C++ language using FLTK graphics which incorporate some of the features of famous flash game DX ball
- **Industrial visits** [Mar'11]
 - Visited Tata power plant Trombay, Mumbai and studied, presented a report on the technical aspects of that power plant

Work experience

- **Enelek power** [Apr'-Jul'12]
[Solar thermal solution provider company, start-up incubator at SINE, IIT Bombay]
 - Executed technical market research for company
 - Developed algorithm of energy auditing, guided by energy auditors
 - Studied and presented industry wise thermal applications
 - Developed cash flow for the company product "solar water heater"
 - Did data collection and statistical analysis of views of potential customers using SPSS
- **Ekjaa** [Dec'11]
[social monitoring organization]
 - Did literature survey and potential idea development for the NGOs working in field of "Business Development services" in Mumbai

Courses undertaken

Core courses

Introduction to renewable energy technologies*
Material science for energy application
Thermodynamics and energy conversion
Heat and mass transfer *
Equipment design and control*
Fluid mechanics with lab*
Basic electrical engineering
Power electronics and machines with lab

*[*represents ongoing courses]*

Additional courses

Signals and systems
Controls and Communication
Environment management*

Other courses

Data analysis and interpretation
Introduction to numerical analysis
Economics

Extra Curricular activities

- Completed the 26 days **Basic Mountaineering Course** with A grade conducted by ABVIMAS, Himachal Pradesh in June 2011.
 - Learnt various mountaineering skills including rock climbing, river crossing, snow and ice crafting
- Participated in **Swimming marathon** event and successfully covered a net distance of 12.6 km. in 12 hr. of continuous swimming
- Completed the **National Sports Organization's** program in Volleyball at IIT Bombay for the academic year 2010-11

Leadership experience

- **Events Core Team Member, Student Alumni Relations Cell** [Mar'12- ongoing]
 - Leading a two tier team consisting of over 50 volunteers, responsible for strengthening student-Alumni relationship through conceptualization of Student Alumni Meet, organizing reunions etc.
 - Achieved an efficiency increment by revitalized calling methodology during Phonathon, alumni outreach program
 - Organized phonathon with more than 2000 calls attempted by around 100 volunteer over a week
 - Planned and will be holding Student Alumni Meet, aiming towards enhancement of alumni student interactions
- **Coordinator, Mood Indigo 2011** [Aug'11- Dec'11]
 - Led a team of 10 organizers for successful management and execution of all workshop events in Mood Indigo 2011.

Interest and activities

- **Languages and softwares**
 - C++, C, MS-office, Matlab, Labview, ANSYS , SPSS
- **Activities and interest**
 - Swimming, Volleyball