**Key Achievements**

* Secured **All India Rank** **743** out of 4.7 Lakh students in **IIT JEE 2010**
* Secured **All India Rank** **705** out of 10.5 Lakh students in **AIEEE 2010**
* Successfully completed **200 km** **Cycle Marathon** ‘Brevet’ **in 12hrs**.
* Secured State Rank **21** in **Middle School Scholarship Exam 2005** from Maharashtra Rajya Pariksha Parishad Pune.

**Projects**

**Design of Prototype Machine for Dhoop Stick Production** *Jan ‘11-Apr ‘11*

*Guide: Prof. Ganesh Ramakrishnan, CTARA, IIT Bombay*

* As part of Supervised Learning Course TD 390 in Centre for Technological Alternatives for Rural Areas (CTARA), extensively researched current Dhoop Stick production processes
* Carried out a field visit to Commercial Production centre in Jalgaon
* Conceptualized and **fabricated** a new machine prototype for production of Dhoop Sticks which increased production efficiency by **400%** with an initial investment of **Rs. 600**
* Was awarded an **AA grade (10/10)** in the course and the solutions were applauded by NGO ‘Venu Madhuri’ and other stakeholders
* The prototype is being manufactured currently and used in Ramanwadi village, Kolhapur.

**Design of Energy Efficient Windows**  *Jul ‘12-Present*

*Guide: Prof. Prakash Ghosh, Energy Engineering Dept, IIT Bombay*

* Designing 'Smart Windows' which will use **solar energy** optimally, to reduce overall electricity consumption in homes
* Applied principle of rotating mirrors that will reflect light to create **virtual tubelights**
* Heat transfer will be reduced by using **smart** **glass** panes to cover mirrors
* Conceptualized a prototype requiring initial investment of **Rs. 2500 per window** which will have a **payback period of 6-7 months**

**Energy Audit of Central Library Building, IIT Bombay** *Jan ‘11-Apr ‘11*

*Guide: Prof. Prakash Ghosh, Energy Engineering Dept, IIT Bombay*

* Audited total energy flow in library of IIT-Bombay and calculated total electricity consumption (~200kW)
* Recommended installation of motion sensors which would result in cost savings of Rs. 5 Lakh per year

**Market Analysis: Dell India Pvt. Ltd.** *Jan ’12–Apr ‘12*

*Guide: Prof. Dinesh Sharma, School of Management, IIT Bombay*

* Detailed a current situational analysis of the company’s **product line-up**, its market **segmentation** and **marketing mix** using **SWOT** analysis technique
* Outlined the development of a **new product** and formulated a 3600 **marketing strategy** for the same

**Study of Industry Cluster of Steel Re-rolling Industry** *Jul ‘11-Dec ‘11*

*Guide: Prof. Anuradha Ganesh, HOD, Energy Engineering Dept, IIT Bombay*

* Surveyed on current energy utilisation in steel re-rolling mills and proposed ways to reduce energy consumption of reactors
* Results of this theoretical project will help in optimizing energy consumption in steel rolling mills by replacing current production process with efficient, sustainable and eco-friendly processes at **individual mill level** as well as cluster level
* Even though proposed changes have high initial investments, their **payback period of about 2-3 years** by saving **90 tons of coal per year**

**Work Experience**

**Management Trainee, QEA Eduventures Pvt. Ltd., Raipur** *May ’11-June ‘11*

* Worked to secure new clients and signed new deals through effective negotiation
* Followed up older deals and also maintained accounts for the company
* Was awarded a **recommendation letter** for my outstanding results

**Position of Responsibility**

**Maintenance Councillor, Hostel 7**  *Apr ‘12 – Present*

* Leading a **team** of **4 secretaries** to handle the revamp and general maintenance of hostel facilities for 450 students
* Working in council of 32 members to organize Hostel competitions and activities
* Managing the proper allocation of a **budget of INR 2.5 Lakh**
* Supervising the bidding and execution of infrastructural tenders worth **INR 90 Lakhs**

**Events Manager, Azeotropy, IIT Bombay**  *Apr ‘12 – Present*

* Working in a team of Managers to organize the annual technical symposium of the Chemical Engineering Department of IIT Bombay
* Organizing high profile events like Lecture Series, Panel Discussion with Industry Experts
* **Proposed and conceptualized a ‘Azeotropy National Quiz’** which will take place in 5 cities across India.
* Planning for open source software training in more than **20 colleges across Mumbai**

**Co-ordinator, Marketing, Mood Indigo** *Jun ‘11-Dec ‘11*

* Worked towards securing sponsorship deals in the form of Cash and Kind with companies in the sectors of Apparel, Healthcare, Batteries, Tyres, etc
* Led a team of 5 Organizers to achieve the targeted goals successfully

**Extra-Curricular Activities**

* Won **1st** in **Collage Making GC** and **3-D modelling GC**
* Selected to be a part of the Official IIT Bombay Kho-Kho team
* Represented Hostel in Football, Table Tennis and Athletics in General Competitions
* Participated in a year-long social campaign **‘Sparsh’**, by an NGO- Make A Difference to **create awareness among under-privileged children** about education and **mentor them** to help discover their interests in life
* Selected for prestigious “Jagriti Yatra” ; One of the 200 out of 15,000 applicants who got selected
* Passionate about Trekking and have trekked more than 500 km