

Scholastic Achievements

- Was among the **top 0.1%** students in the country securing a **rank of 383** out of approximately 0.55 million appeared for **IIT-JEE, 2011**
- Achieved **All India Rank of 202** in **AIEEE – 2011** (All India Engineering Entrance Examination), among approximately 1.5 million students (**Top 0.02%**)
- Secured state category rank 8 out of more than 70,000 students in AIEEE from Madhya Pradesh state
- Topped the district in class 10th Board Exams and was eligible for a scholarship by Madhya Pradesh State Government in 12th Grade for outstanding academic performance
- Was selected for the National Talent Search Exam (final level) by the government of India in Class 10th.

Key Projects / Works

1. Internship at Zeus Learning

(Winter 2012)

- Company - Zeus Learning is a leading e-learning company of India based in Mumbai, established in 2001
 - Work Profile - Working in the content department of the company's division Testfunda.com, created content for Puzzle of the Day, Question of the Day etc.
- #### **2. Inverse Heat Conduction (Matlab Programming and Presentation)**
- (Summer 2012)
- Objective - Matlab Programming and Presentation on Inverse Heat Conduction
- Guide - Prof. R P Vedula (HOD, Mechanical Dept., IIT Bombay)
- Understood Physics and Mathematics of Inverse Heat Conduction
 - Starting from a basic level coded various Matlab Programs on Direct and Inverse Heat Conduction
 - Prepared a Powerpoint Presentation on the same.

3. Remote Controlled Bot

(Autumn 2011)

- Objective - Develop a wireless remote controlled bot with various control interfaces
- Guide - Mr. Piyush Chauhan (*Manager, Electronics Club*, IIT Bombay)
- Prepared a four- motor bot with gesture, mouse and keyboard as control interfaces
 - Designed motor driver PCB using "Eagle" and programmed the same using "Arduino" board
 - Extensively used "XBee" for wireless communication between bot and control device.

4. Smart Materials (Analysis)

(Autumn 2012)

- Objective - Analyse various smart materials used in different fields.
- Guide - Prof. B.P.Kashyap (*Metallurgical process dept.*, MEMS , IIT Bombay)
- Collected information of various smart materials used for different purposes
 - Prepared illustrative and descriptive ppt and successfully demonstrated in front of a class of 130 students, explaining the most important smart materials like the Piezoelectric and Thermoelectric materials.

5. Work Visits to Yusuf Meherally Centre

(Spring 2011)

Objective - To understand the manufacturing of various products like edible oils, soaps, phenyl etc. manufactured by Yusuf Meherally Centre

- A paperwork was done on how to improve the productivity of the centre using technically advanced methods and equipments

Courses Undertaken

Besides the common engineering courses like Thermodynamics, Solid Mechanics, Engineering Metallurgy, Engineering Mechanics, Modern Physics, Chemistry, Calculus, Linear Algebra, Differential Equations, Basic Electrical and Electronic Circuits, Physics Lab, Chemistry Lab, Error and Measurement Analysis Lab; I have also completed the following courses which might be helpful for my internship :

- Economics
- Data Analysis and Interpretation
- Computer Programming and Utilisation
- Social Psychology

The courses I am pursuing currently and which will be completed before Summer 2013 are Fluid Mechanics, Strength of Materials, Numerical Analysis, Manufacturing Processes and Lab and Solid Mechanics Lab

Computer Skills

- Programming Languages: Matlab, C, C++, HTML, Visual Basics.
- Presentation Interfaces: MS-Office, Mac Office, Blackberry Presenter
- Other Software: Adobe Photoshop, Adobe After-effects, Sony Vegas,

Extra-Curricular Activities/Achievements

Film and Dance

- Made three short films for college level events in which i did scriptwriting, screenplay and direction; won best director award and overall second position for my short film "Pity" at college level.
- My short film "Alone on a Weekend" was screened at the IIT Bombay Film Festival
- Represented the hostel in the main intra-college filmmaking (Film GC) competition
- Represented the hostel in the main intra-college group dance (Gyrations) competition

Sports

- Played in State Level Chess , almost qualified for the national level .
- One of the 930 students who hold the GUINNESS world record for the maximum number of students solving a Rubik's cube in a limited time

Managerial

- Was active of the institute GRA(Group for rural activities) team which went to different rural areas and worked for their welfare.
- An active member of the Institute Film Group Silverscreen.

Quizzing

- Selected for the final round of National Chemistry Olympiad.
- Secured 110th position in a National Level Science Olympiad Quiz (NSTSE).

