

## **SCHOLASTIC ACHIEVEMENTS**

- Awarded the “**National Talent Search Scholarship (NTSE)**” by NCERT in 2007
- Selected for **Indian National Mathematics Olympiad (INMO)** after successfully clearing the **Regional Mathematics Olympiad (RMO)** in both class eleventh and twelfth conducted by Homi Bhabha centre for science education , 2010 and 2011
- Selected for **Indian National Astronomy Olympiad (INAO)** in standard ninth
- Secured **All India Rank 527** in IIT-JEE 2011 among 500 thousand students
- **Ranked 4<sup>th</sup>** in **Maharashtra Talent Search (MTSE)** scholarship examination
- Awarded gold medal in Mathematics Pradnya examination for excellence in mathematics
- Awarded the silver medal in Homi Bhabha Young Scientist competition
- Awarded middle school as well as high school scholarships securing 3<sup>rd</sup> and 2<sup>nd</sup> ranks respectively in the state

## **POSITIONS OF RESPONSIBILITY**

- **Web co-ordinator for IIT Bombay Racing Team**
  - Currently maintaining the team website [www.iitbracing.org](http://www.iitbracing.org)
  - Managing the team blog “Revolution” which is aimed as a common discussion forum for Formula Student teams
- **Anchor, Final Round of Techfest Green Campus Challenge**
  - Was the anchor for the final round of the event held in the IDC Auditorium at IIT Bombay Techfest 2013.
  - The event consisted of the presentations by the top twelve finishing teams in the competition.
  - The programme was presided over by Professors from IIT Bombay as well as a few guests from Business Schools in Mumbai.
- **Junior Design Engineer, IIT Bombay Racing**
  - Working with the team in the Suspension and braking subsystem of the car under manufacturing
  - Developed a MATLAB code for brake force calculations depicting the effects of various parameters on performance
  - Developed CAD models for various components of the braking assembly
  - Currently working on the development of Anti Lock Braking System (ABS) to be implemented in next year’s car
- **Student Correspondent Editor for Times Of India student Newspaper, NIE**
  - Wrote articles in the newspaper on varying issues
  - Represented the school in the meetings held in the TOI main office
- **School Head Boy for the secondary section**
  - Hosted the school annual Day as well as the school sports Day
  - Assisted the council in conducting various intra school competitions

## **PROJECTS AND INTERNSHIPS**

- **Summer internship with IIT Bombay Racing Team**
  - Assisted in the assembly of **Evo1, India’s First Electric Race Car**, taken for the Formula Student competition at the Silverstone circuit track, London 2012
  - Disassembled and reassembled PRITHVI 3.0, the pre-made car made for BALA SAE INDIA competition, to understand the basics of vehicle dynamics and manufacturing

- **Line-follower Robot**
  - Built an auto controlled Line follower robot using microcontroller coding
  - Learned the coding of AVR family microcontrollers and used PID to incorporate programmes in the unit
- Built Heavy fighting Robot for Inter College competition in the Gladiator Competition at Thadomal Sahani College, Mumbai

## **OTHER TECHNICAL SKILLS**

- **Programming Skills :**  
Well versed with programming languages C, C++ and Java
- **Web Designing Skills :**  
Skilled in the use of html, Javascript, JQuery and css
- Designing and Mathematical softwares :
  - Proficient in the use of SolidWorks (CAD) and MATLAB.
  - Currently working to develop simulation of Anti-Lock Braking Model in Cars using MATLAB.

## **COURSES TAKEN**

- **Core Courses in Mechanical Engineering Department :**
  - Engineering Mechanics
  - Solid Mechanics
  - Thermodynamics
  - Engineering Metallurgy
  - Strength of Materials
  - Manufacturing Practices
  - Fluid Mechanics
- **Other courses :**
  - Economics
  - Introduction to Electronics and Electrical Circuits
  - Modern Physics :Quantum Mechanics and Relativity Theory
  - Introduction to Computer Science :Programming in C++
  - Mathematics : Calculus, Linear Algebra, Differential Equations, Numerical Analysis
  - Data Analysis And Interpretation : Probability Theory and Hypotheses Testing
- **Pursuing Minor Degree in Management :**
  - Marketing Management
  - Human Resource Management

## **EXTRA – CURRICULAR ACTIVITIES**

- Awarded the 6<sup>th</sup> position in National Level Quiz Competition conducted by United Schools Organization Of India, VEC **United Nations**
- Declared as the **Best Speaker** in Inter School Debating Competition
- Declared as the **Best Outgoing Student of the Year** in the school
- Was a part of the hostel chess team in the inter hostel freshmen General Champions
- Interested in debating, literary activities, quizzing
- Was awarded the **Best Scout** in the school