Scholastic Achievements

- Secured an All India Rank of **579** in IIT-JEE 2011 out of 4,50,000 candidates
- Secured an All India Rank of **3938** in the AIEEE 2011 out of 11,00,000 candidates
- Was selected till the second round of the **National Physics Olympiad** and was awarded a **Certificate of Merit** for being in the National **Top 1%**
- Selected for the Prestigious **Kishore Vaigyanik Prothsan Yojna (KVPY) Scholarship** during class XI due to exceptional performance in Science and Mathematics

Academic and Technical Projects

- **Self-Balancing Bot**   *May 2012-Present*
    - Designed the Physical Structure of the Self-Balancing Bot using "Solidworks" software
    - Calibrated accelerometers using the Gyro Model to achieve accurate input values
    - Designing and Implementing the Driver Circuit for the motors on a PCB
    - Writing of a Program in C to control the RPM of the motors from the input of sensors
- **Loop the Loop game**   *Jul-Nov 2011*
  Guided by Prof D.B Phatak, CSE Department, IIT Bombay
    - Wrote the algorithm for computer solution of the puzzle and implemented it by writing C++ code for the algorithm
    - Designed and Coded the Main Menu screen of the game in C++ using EzWindow API
    - Integrating the work done with that of other team members to complete the game
- **Line Following Bot**   *Oct 2011*
    - Designed the circuit of the line following bot and implemented the design on PCB by using Light Sensors, L293D and a ATMEGA 328 Microcontroller
    - Wrote the code for the line following bot in C language by calibrating output of light sensors and then determining the power output to each motor for differential steering
- **Balsa Wood Glider**   *Feb 2012*
    - Worked in a team of 3 members and made a glider using balsa wood and clay
- **TechOne**   *Aug 2011*
    - Designed the circuit for the wireless remote controlled car and implemented it on PCB that successfully completed the obstacle course

Software Skills

- Software Tools :   MS Office, Solidworks, Photoshop
- Programming Languages :   C, C++, Java, Python
- Operating Systems :   Windows, Linux and Mac

Relevant Courses

Computer Programming and Utilisation	Mathematical Structures for System and Controls*
Introduction to Flight	Data Analysis and interpretation
Fluid Mechanics	Calculus
Solid Mechanics	Linear Algebra
Aircraft Measurement Laboratory	Differential Equations
Introduction to Engineering Drawing	Introduction to Electrical Engineering
Engineering Design	Economics

*Pursuing a Minor in Systems and Control Engineering

Position of Responsibility

- **Mood Indigo, IIT Bombay**
    - Worked as an Organiser in Mood Indigo Services Department   *Aug-Dec 2011*
    - Working as an Co-Ordinator in Mood Indigo Services Department   *Jan 2012-Present*
- **Techfest, IIT Bombay**
    - Worked as an Organiser in Robowars Department and Handled   *Aug 2011-Jan 2012*
    - Working as a Co-Ordinator in Technoholix Department   *Jan 2012-Present*
- **Zephyer**   *Jan – Feb 2012*
    - Worked as an Organiser in Zephyer (Aerospace Department Annual Festival) and helped to organiser various Events, Lectures and Sessions of the Festival

Extra-Curricular Activities

- Language Courses   *Aug 2011- Present*
    - Successfully completed the one year duration Basic Level **Chinese Language** Course offered by the Beijing Jiatong University with **Excellent** Grade and **100% attendance**
    - Currently doing a Basic Level **Japanese Language** course in IIT Bombay
- NCC (National Cadet Corps)   *Mar 2007-Feb 2009*
    - Was a Regular member of the NCC during class IX and X and took part in its activities
    - Participated in the Combined Annual Camp of the NCC held at Jaipur
- Rubik's Cube World Record   *Mar 2012*
    - Member of the **937 people** team that set a new world record for most number of people solving a **3X3X3 Rubik's Cube** at the same place within 30 minutes
- Performing Arts Festival   *Mar 2012*
    - Danced on **Inline Skates** in the PAF and also actively took part in its **Prod Department**
- NSO (National Sports Organisation)   *Jul 2011 – Apr 2012*
    - Successfully completed a yearlong **NSO Yoga** Course under the guidance of the Instructor