SCHOLASTIC ACHIEVEMENTS

- Ranked 9 out of 96 in the department
- Secured All India Rank 55 in IIT JEE (Advanced) 2013 out of 1.5 lakh candidates
- Secured All India Rank 16 in IIT JEE (Main) 2013 out of 13 lakh candidates
- Awarded AP grade in Calculus and Differential Equations
- Awarded Gold Medal in Indian National Physics Olympiad 2013 (top 35 from all over India)
- Attended Vijyoshi camp in 2012 organised by IISc (Indian Institute of Sciences)
- Qualified for INMO (Indian National Mathematical Olympiad) 2013
- Secured All India Rank 8 in NSTSE 2011 conducted by Unified Council
- National top 300 in National Standard Examination in Physics and Astronomy (NSEP and NSEA)
- Pursuing a Minor in Applied Statistics and Informatics

SCHOLARSHIPS

- Offered INSPIRE Scholarship for being in top 1% of Maharashtra HSC Examination
- Awarded the **KVPY Fellowship** for the period 2012-13
- Awarded Scholarship from St. Thomas School, Ranchi for being the City Topper and Third State Topper in ICSE 2011

PROJECTS

• Chess Playing Bot

(June - July 2014)

- Mentor: MVC Deepak
- o Created a mechanical framework to move the chess pieces across the board automatically
- o Implemented the Mini-Max and Alpha-Beta Pruning algorithms to design the chess engine's AI
- Used **Stepper and Servo Motors** to control the mechanical parts
- o Interfacing of all the components done on Beaglebone

• Tetris (Jan 2014)

Guide: Prof. Rushikesh K Joshi

- o Developed the popular game of Tetris using the FLTK Library of C++
- Implemented Event Handling and Time based Randomization for generating falling blocks

Physics Simulation Engine

(Oct - Nov 2013)

Guide: Prof. Supratim Biswas

- Developed an Electromagnetic Simulator for charged particles using Simplecpp developed by Prof. Abhiram Ranade (CSE, IITB)
- Accurately illustrated the motion of charged particles under external as well as their own Electromagnetic Forces
- o Extendable to any force with Inverse Law Behaviour

TECHNICAL SKILLS

- Languages: C, C++, Python, Prolog, Bash, OpenCV C++ Library
- Web Development: HTML, CSS, JavaScript, PHP, MySQL
- **Softwares** : Eclipse, LATEX
- Electronics : Arduino, Beaglebone

COURSES UNDERTAKEN

- Computer Programming and Utilization
- Calculus
- Introduction to Electrical and Electronics Circuits*
- Abstractions and Paradigms + Lab
- Data Analysis and Interpretation*
- Software Systems Lab*
- Introduction to Probablility Theory*
- Quantum Physics and application

- Discrete Structures*
- Data Structures and Algorithms + Lab*
- Modern Physics
- Linear Algebra
- Differential Equations
- Biology
- Basics of Electricity and Magnetism
- Chemistry
- * to be completed by November 2014

POSITIONS OF RESPONSIBILITY

• Teaching Assistant

MA105 for Prof. Ravi Raghunathan

o Entrusted with training 42 students and their evaluation

Convener

Electronics Club

- Managing and participating in various club realted activities in the institute
- o System administrator for the club website
- o Acted as a Super Mentor for 5 teams, having 4 members each, for freshman competition, XLR8

• Web Secretary

Computer Science and Engineering Association

- o Tasked with maintaining and updating the CSEA website
- o Involved in planning and executing other events of the association

Coordinator

Media, E-Cell

- o Responsible for creating and publishing articles for E-Cell's Magazine, EnSpace
- o Also involved in bringing dealing with sponsors for the magazine

INTEREST AND HOBBIES

- Image Processing
- Cryptography, Encryption and Security
- Algorithms
- Competitive Coding
- Robotics and Electronics: One of the core members of Parinat, IIT Bombay's Humanoid Project
- Journalism: Involved with InsIghT, the media body of IIT Bombay

EXTRACURRICULARS

- Bagged the 1st prize in Advertisement Making Competition for Freshizza, the Freshman Cultural Event
- Won 2nd prize for making a Pokemon simulation game in Scratch
- Secured 1st prize in school for Quizzing
- Anchored a couple of events in school
- Participated in XLR8 and Line Follower Competitions in 2013
- Nurture a love for reading mystery and fiction based novels
- Beginner at playing guitar