

Scholastic Achievements:

- Secured an SPI of more than **9** in last two semesters.
- Within **Top 10%** of the **2011 batch** of students of the Department.
- Awarded **Certificate of Merit** for being placed in statewide **Top 1%** in the **National Standard Examination in Physics** (NSEP) in 2010 organised by IAPT.
- Secured **First** position on **Nagpur Taluka Level** in 'Inter School examination conducted for preparation of UPSC examination' organised by the Dy. Director Education, Nagpur Division, Nagpur in 2009.

Academic Projects:

Summer Intern at Defence Research and Development Organization, Hyderabad [May-June 2013]

- The project involved **ship navigation** using Kalman filter for correction.
- The navigation initiated using Inertial Navigation System (INS) which consists of accelerometers in three directions. The position of the ship is calculated by integrating the accelerations obtained from INS which induces error. This error is corrected using **Kalman filter** mechanization which takes the velocity of ship from velocity log sensor as input.
- The project work mainly involved development of algorithms in **MATLAB** along with verifying the results obtained using the physical test equipment.

Designing of 'Dynamo Cycle'

[Sept-Nov 2012]

- Successfully led a team of 6 students as 'Team Coordinator' in the course of 'Introduction to Engineering Design' for project of designing a device which can convert the mechanical energy used in riding bicycles to electrical energy.
- The device conceptualises the use of Dynamo and storing the energy generated to be used for various purposes like charging mobile phones, lighting bulb, etc. especially for rural India.

Development of a 'Virtual Bank'

[Sept-Nov 2011]

- Actively participated in a team to successfully complete the project 'Virtual Bank' using **c++** in the course of CS 101.
- **Simulated operations** of a bank like creating and managing accounts, enabling user to make transactions and balance inquiry using various programming modules.

Technical Skills:

- C++, MATLAB

Position of Responsibility:

Crowd Manager, 'Placements IIT Bombay 2012'-

- The job involved ensuring the presence of the candidates before their **interviews** and **informing** them about any changes in the schedule.
- It also included carrying the shortlists for further rounds provided by the company and taking care of the **logistical** requirements of the companies.

Organiser, 'Techfest 2012'-

- The work involved creativity in fabricating '**Click Exhibition**', photographic exhibition which constituted entries from all over India.
- Also worked in organising '**The Amazing Race**' - a treasure hunt competition which involved planning various tasks to be performed by the contestants.

Extra Curricular Activities:

Mars Society of India:

- Working on a rover building competition called '**University Rover Challenge**' organised by University of Utah, United States along with a team of about 25 students of IIT Bombay.

National Cadet Corps:

- Attended the **NCC** camp in December 2011 & successfully cleared B certificate examination in year 2012.

Literary events:

- Awarded **2nd** position in inter school '**Rajiv Gandhi Essay writing**' competition in 2008 organised by Nagpur Municipal Corporation, Nagpur.
- Participated in 'All India Inter School Personality Contest' for the year 2007 organised by S.C.Raghatate's Oxford Speakers' Academy, Nagpur.
- Participated in various inter school drawing and letter writing competitions.

Other Interests:

- Active member of 'Skating Club' at IIT Bombay.
- Participated in 'RC Car' making competition in year 2011 at IIT Bombay.
- Participated in 'Chuck glider' making competition in year 2012 at IIT Bombay.