

## SCHOLASTIC ACHIEVEMENTS

- Secured an All India Rank of **6723 (50 in SC category)** in Joint Entrance Examination and was amongst the **top 1.68%** of the total candidates who appeared for the same
- Secured an All India Rank of **5148 (43 in SC category)** in All India Engineering Entrance Examination and was amongst the **top 0.51%** of the candidates who appeared for the same

## INTERSHIPS AND INDUSTRIAL TRAINING

**ONGC Summer training**, ONGC Uran plant, Uran

[16<sup>th</sup> May 2011 to 30<sup>th</sup> June 2011]

- Introduced the idea of WHRU (Waste heat recovery unit) using ORC (Organic Rankine Cycle) power system developing a theoretical model of a unit to recover the waste heat from exhaust of gas turbines
- Thoroughly studied Organic Rankine Cycle and optimized it to extract energy from the exhaust gases of gas turbines, thereby recovering 14% of the waste energy
- Received letter of appreciation for the project mentioned above from The Deputy General Manager, Cogeneration Plant, ONGC Uran
- Conceptualized overall working of the LPG plant and learned about maintenance of compressors & gas turbines from on duty engineers

## PROJECTS AND TECHNICAL ACHIEVEMENTS

**ROBOCON at institute level**    2<sup>nd</sup> position

- Designed a CAD model of a mechanical robot having 3 degrees of freedom
- Built a working prototype based on the CAD model in a team of 5, which could lift thermocol blocks up to a height of 4 feet and make a pyramid by placing them on the given arena

**Unique identification project**

[Oct to Nov 2009]

*Guide Prof. Deepak .B Phatak*

- Brought out the dynamic aspect of my programming skills in writing an algorithm for Record Management and Error Handling in Database and remediate it
- Same Project being successfully applied in IIT Bombay for keeping student's attendance record

**Material Selection and Design**

[Oct to Nov 2010]

*Guide Prof. G V Prabhugaonkar*

- Carried out the stress simulation of a drill bit model and inferred about material specifications
- Examined the crystal structure of candidate materials and reviewed various manufacturing processes which can alter the microstructure to get desired properties
- Collected the extensive data of competent materials & inferred the most appropriate material which can be used for manufacturing

## Heron's fountain

[March to April 2011]

Guide Prof. Atul Sharma

- Studied and identified the working principle of Heron's fountain and made a working model for it
- Demonstrated the principle of pneumatics using Heron's fountain, used extensively in industries

## POSITION OF RESPONSIBILITY

**Coordinator, Hospitality** (Food & Beverages), Mood Indigo-2010

- Worked in a team along with F&B Core group member to **finalize deals** with different food providers
- Managed the installation of food stalls and their proper operation
- Coordinated with Manager, Gulmohar Restaurant to provide '**A' grade food** for Artist and Judges

**Coordinator, Autobots** (Mars Manoeuvre), Techfest 2010-11

- Planned the execution of **mars manoeuvre** competition and ensured its implementation single handedly
- Managed national & international participants of **I-nexus** and ensured to provide best hospitality
- Managed a group of around 20 organizers and assigned them to different teams for providing necessary technical equipments

## EXTRA CURRICULAR ACTIVITIES

- **Basic Mountaineering Course (BMC)** [1<sup>ST</sup> July 2011 to 26<sup>th</sup> July 2011]
  - Completed a 26 days mountaineering course from Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports (ABVIMAS), certified by the government of India, with '**A' grade** in the same
  - Scaled a height of **15,700 feet** and practiced various techniques of mountain climbing (jumaring, rock climbing, wall climbing, ice walking and climbing etc)
  - Interacted with people from country & abroad and supported my team through the entire course
- **National Service Scheme**
  - Visited **Surgana village** (nashik district) as a part of GRA camp (Group for rural activities) and interacted with the people of local areas
  - Understood the need of appropriate technology alternatives for rural areas and use locally available resources to the extent possible
- Part of the production team in **PERFORMING ARTS FESTIVAL** winning the best production award for the year 2010
- Represented hostel **volleyball team** in **General Championship**
- Participated in Institute Level **Dramatics** Competition "**Freshie Prod**"

## TECHNICAL SKILLS

- Proficient in modeling using Solidworks
- Programming Skills: **C, C++**
- Operating systems comfortable with: Windows, Linux