

## SCHOLASTIC ACHIEVEMENTS:

- Secured rank 1911 in IIT-JEE, 2009 amongst 400000 students (amongst top 0.48%)
- Awarded the Prestigious Certificate of Merit in XII CBSE board examination
- District Topper in X CBSE board examination (5<sup>th</sup> rank in state)
- Ranked 23<sup>rd</sup> in 1<sup>st</sup> round of National Talent Search Exam (NTSE-06)

## SCHOLARSHIPS:

- Mamraj Agarwal Foundation Award-2007: The then Governor of state and now the President of India Mrs. Pratibha Patil bestowed this award upon me (for meritorious performance in X CBSE board examination).
- Central Sector Scheme of Scholarship for College & University Students (CSSCUS-2008) for meritorious performance in XII CBSE board examination

## ACADEMIC PROJECTS:

- **CORE TEMPERATURE MEASUREMENT OF ROTATING SHAFT DURING FRICTION WELDING USING WIRELESS DAQ** *May-July 2011*  
Setup the experiment, with Robust Clamp for holding the device on chuck, for measuring core temperature of the rotating shaft using wireless data acquisition device. Labview software was used for interfacing the device with computer. Gained hands on experience on friction welding machine.  
- Prof. G Phanikumar, Dept. Of Metallurgical & Materials Eng., IITM
- **INJECTABLE HYDROGELS FOR CARTILAGE TISSUE ENGINEERING** *Dec 2010 – April 2011*  
Synthesized Injectable hydrogels to be used as Scaffolds for holding cells and fibres for improving the healing capacity of Cartilage Tissues, using natural polymers as cross linking agents to ensure the biocompatibility (still in development stage).  
- Dr. Biji Balakrishnan, Post Doc under Dr. R.Banerjee, Dept. of BioSci. & BioEng. , IITB
- **HARD SPHERE SIMULATION MODEL** *July 2010 Ongoing*  
Designing and building hard sphere simulation model that shows demonstration of different atomic arrangements and phase transformation.  
-Prof. M.P. Gururajan, Dept. Of Metallurgical Eng. & Materials Sci., IITB
- **SOLIDIFICATION MICROSTRUCTURES IN AMMONIUM CHLORIDE AND WATER MIXTURE** *Summer 2010*  
Observed the formation of dendritic microstructures in ammonium chloride and water mixture based on the temperature difference between the cast & mixture (rate of cooling)  
-Prof. M.P. Gururajan, Dept. Of Metallurgical Eng. & Materials Sci., IITB
- **'MINI NATIONAL UID (UNIQUE IDENTITY) FOR IIT CAMPUS' – GROUP PROJECT**

Fall 2009

Programmed in C++. IITB students were issued a UID based on their finger print. A user interface was created & fingerprints were taken which were tracked back to a UID in a database. The database registered, classified & consolidated each student using image processing and duplication was done for applications like attendance, access control and online exam.

*-Prof. Deepak B. Phatak, Dept. of Comp. Sci., IITB*

**SEMINARS:** CSIR program-me on Youth for Leadership in Science (CPYLS-2006):

- Organized by Central Electronics Engineering Research Institute (CEERI – Pilani) Nov 8-9, '06
- Attended a talk on Active Noise Control and its Applications by Dr. D P Das.
- Visited a lab demonstrating controlled conditions of humidity and chemical environment to produce even and good quality tea, an industry sponsored project.

### **POSITIONS OF RESPONSIBILITY:**

- Core-Team Member, Events, SARC (Student Alumni Relations Cell, IITB).
- Represented IITB at 5th Science Expo (2011) at Nehru Science Centre (Jan 21-Jan 24, 2011)
- Exhibitor in Tech-Connect (Dean R&D and IRCC: TechFest 2011) (Nov. '10-Jan. '11)
- Member of SARC (Student Alumni Relations Cell, IITB) Web Team that designs and maintains websites, interfaces, databases and software's for SARC.
- Photography and Fine Arts In-charge in Padarth-2010 (MEMS department technical festival)
- Mess Secretary of Hostel Mess, 2010 – 2011
- Organizer [2009] in Mood Indigo-09, IITB, Organizer [2010] & Coordinator [2011] in TechFest, IITB.

### **COMPUTER SKILLS:**

- Programming Languages: C, C++
- Scripting Languages: JavaScript, P.H.P., H.T.M.L., X.M.L., S.Q.L., C.S.S., A.J.A.X.
- Operating Systems: UNIX/LINUX, Windows
- Software's and Applications: Mat lab, Adobe Photoshop, Auto-CAD, Scilab, MS Office

### **EXTRA CURRICULAR ACTIVITIES:**

- Designed a 3D model for depicting screw dislocation in crystal lattice
- Designed a three wheeled Remote controlled-Wireless Robot
- Won 2<sup>nd</sup> prize in Freshizza dance competition-09 (inter hostel) and 1<sup>st</sup> prize in a certificate course in calligraphy (done in Summer 09)
- Co-ordinated with CNBC media (IIT Bombay Student Representative), for the lecture series "Lectures on Leadership"
- Surveyed a village Guhi regarding their daily life problems(On the basis of this survey Government of Maharashtra would have taken steps for their welfare)
- Won best All-Rounder Student-04 trophy