Shruti Sharma   09011029
Metallurgical Engineering & Material Science   **UG Second Year**
Indian Institute of Technology, Bombay   **Female**
                                                        DOB: 22.10.1989

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2010	7.03
Intermediate/+2	CBSE	St.John's Sr. Sec. School	2008	92.00
Matriculation	CBSE	St.John's Sr. Sec. School	2006	96.00

SCHOLASTIC ACHEIVEMENTS:

- Secured rank 1911 in IIT-JEE, 2009 amongst 4,00,000 students (amongst top 0.48%)
- Awarded the prestigious Certificate of Merit in XII CBSE board examination
- District Topper in X CBSE board examination (5th rank in state)
- Ranked 23rd in 1st 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 (CSSSCUS-2008) for meritorious performance in XII CBSE board examination

ACADEMIC PROJECTS:

- Hard sphere simulation model   (July 2010 Ongoing)
  Guide: Prof. M.P. Gururajan
  Designing and building hard sphere simulation model that shows demonstration of different atomic arrangements and phase transformation

- Solidification Microstructures in Ammonium Chloride and Water Mixture   (Summer 2010)
  Guide: Prof. M.P. Gururajan
  Observed the formation of dendritic microstructures in ammonium chloride and water mixture based on the temperature difference between the cast and mixture (rate of cooling of the mixture)

- Synthesis of Silly Putty and Magnetic Silly Putty   (Summer 2010)
  Guide: Prof. Ajay Singh Panwar
  Synthesized silly putty (a dilatent material) and observed the variation in its properties based on the introduction of various additives

- 'Mini National UID (Unique IDentity) for IIT campus' – group project   (Fall 2009)
  Guide: Prof. Deepak B. Phatak, Department of Computer Science, IIT-Bombay

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 (soon to be introduced in IITB)

COURSES UNDERTAKEN:

Structure of Materials, Materials and Technology, Transport Phenomenon, Mechanics of Material, Experimentation and measurements lab, Linear Algebra, Differential Equations, Calculus, Data Analysis and Interpretation, Engineering Drawing and Graphics, Workshop Practice, Economics

SEMINARS: CSIR Programme 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:

- Member of SARC (Student Alumni Relations Cell, IITB) Web Team that designs and maintains websites, interfaces, databases and softwares for SARC(a student organization in IITB which acts as a link between the Alumni and IITB by organizing reunions etc)
- Photography and Fine Arts Incharge in Padarth-2010 (MEMS department technical festival)
- Currently Mess Secretary of Hostel Mess
- Organizer in Mood Indigo-09 (Asia's largest inter-college Cultural Festival) at IITB
- Organizer in Techfest-2010 (Inter-College Technical Festival)at 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
- Softwares and Applications: Adobe Photoshop, Basics of Auto-CAD, Scilab, MS Office

EXTRA CIRRICULAR ACTIVITIES:

- Designed a 3D model for depicting screw dislocation in crystal lattice
- Designed a three wheeled Remote controlled-Wireless Robot
- Won 2nd prize in Freshizza dance competition-09 (inter hostel) and 1st 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

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