



SUMIT GUPTA
Electrical Engineering
Indian Institute of Technology, Bombay
Specialization: Communication & Signal Processing

09D07006
UG Third Year(Dual Degree)
Male
DOB: 21-06-1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.00
Intermediate/+2	C.B.S.E.	Happy Days School	2008	77.80
Matriculation	M.P. Board	Bal Shiksha Niketan School	2006	90.00

POSITIONS OF RESPONSIBILITY

Institute Secretary for International Relations

Apr'11 - till now

- Coordinated with GSAA regarding the Academic Reforms Committee and prepared a report on the assessment pattern of selected universities to increase the academic involvement of students during the semester
- Arrangement for Foreign Language Classes (German, French, Chinese and Japanese) for IIT Bombay students with the help of respective country embassies.
- Facilitated the process of Student Exchange Programs and resigned the expired MOUs
- Coordinated with the Dean IR to allow cultural exchange between students from various universities

DAMP Mentor (Department Academic Mentorship Program)

Mar'11 - till now

- Planned new strategies and techniques to ensure maximum passing percentage of students in all courses
- Our work is to mentor academically weak students of Electrical Engineering Department of IIT Bombay

Institute Teaching Assistant in Humanities and Social Sciences Department of IIT Bombay

Jan'11 - Mar'11

- Appointed as a **Teaching Assistant** in my 2nd year in HSS Department for the course "HS-200- Environmental Studies".
- Directly in contact with Course Instructors and Professors to ensure proper running of the course, evaluation, update course content and to moderate with 700 students registered for the course

Class Representative, Electrical Engineering Department of IIT Bombay

Jul'10 - till now

- To organize interactive talks by Professors, Seniors and organized events and treks and trips for the batch students

Council Member, EESA (Electrical Engineering Student Association)

Aug'10 - Apr'11

- Responsible for smooth conduction of Activities/Events and workshops organized for students by EESA

Convener, Campus Radio

Apr'10 - Oct'10

- Conceptualized the format of Campus Radio shows and coordinated with all other Clubs of IIT Bombay
- Customized new shows on entertainment, news & political updates, and shows like campus idol

Coordinator for Mood Indigo, Asia's largest College Cultural Festival

Sep'10 - Dec'10

- Superheaded a team of 7 organisers, working under my supervision, to handle Workshops, Shows by famous Indian artists like "Sabri Brothers" and "Hasya kavi Sammelan"
- Handled events like "Guinness & Limca Records Break Attempt". Also Invited Guinness & Limca Record Holders

Coordinator for Techfest, Asia's largest Science and Technology Festival

Oct'10 - Jan'11

- Superheaded a team of 15 organisers, working under my supervision, to provide infrastructure for 6 Night International Shows for an audience of more than 10.000
- Invited Double Dutch Force Crew, to first time in INDIA. Solely Responsible for their performance, they are the world champion in rope jump and performed in the famous song "Rise Up"

INDUSTRIAL EXPERIENCE AND RESEARCH PROJECTS

Summer Internship at Karlsruhe Institute of Technology, Germany

May'11 - Jul'11

Project Title: Image Stitching Algorithms for high resolution Optical Microscopy

Contact Person: Prof. Dr. Wilhelm Stork (wilhelm.stork@kit.edu)

- This project was carried out to supplement the development efforts of 'add-on optics for cell phone' at ITIV
- Optimized the Image stitching process by using my own algorithms and extracting some features from Hugin SDK
- In handyprobe and Dioscur ID projects we developed add-on optics for product security where particles with resolution of upto 20um are imaged. As an extension my task was to embark on evaluation of this technology as cell phone microscopes also. The differentiating factor in our approach was custom optics and cost effectiveness

Summer Internship at Larsen & Toubro Infotech, Mumbai

May'10 - Jun'10

- **Studied innovation models** of leading companies (L&T, Reliance Communications, Crompton Greaves, Infosys etc) & customized key methodologies to suit the product development strategy of Larsen & Toubro, Infotech
- Undertook a Project on **MS-Sharepoint migration from 2007 to Sharepoint-2010** and thus improved "L&T- Scape". L&T scape is a web based intra L&T portal. Also Installed MS-Sharepoint Server in L&T
- Improved **SMS Gateway Project** & got **Appreciation Certificate** by CIO, L&T Infotech for my sincere work
- Invited for a **conference with Microsoft** on its new product "**Microsoft Forefront Identity Manager**". Agenda of the meeting was to implement this software in L&T, infotech. That project was worth \$80 million

COURSE PROJECTS AND PERSONAL PROJECTS

- Successfully completed "**Mini India UID Project based on Fingerprint Identification**" as a Team Leader. Our work was to do Application part and to make "Template Matching Function" Using C++ Coding"
- Made a **LEDs based Brick Shooting Game**. The aim of the game is to destroy the moving wall by shooting it, brick by brick, before it reaches the player. The whole hardware and logic was implemented using ICs and Flip-Flops
- Created a **Library Management System** to execute the operations required by the library, to be set up in the Department of Electrical Engineering, IITB. Designed code using PHP to connect MySQL database to the interface
- Made a **Line Following Robot** using Microcontroller (Arduino-UNO) for the competition "Loop-Rush" at Techfest, 2011
- Did a detailed **Case study of Insurance Market**: in India as a part of Economics course. The conclusion of the study asserted that Insurance market in India is "Oligopoly Market". (Guide: Prof. Haripriya Gundimeda)

SCHOLASTIC ACHIEVEMENTS

- Secured an **All India Rank of 315** in **Indian Institute of Technology Joint Entrance Examination, 2009**
- Secured an **All India Rank-640** and **State Rank-34** in **AIEEE, 2009**
- Among the **top 50** students selected all over the world for **online Caltech Space Challenge Competition** by NASA-JPL and Keck Institute for Space Studies.
- Appointed as a **Institute Teaching Assistant** in my sophomore year with a stipend of Rs. 6000 per month
- **1st** in District and **12th** position in State (M.P.) in 10th Board Exam

SOFTWARE AND COMPUTER SKILLS

- **Programming Languages Known**: C/C++, open CV
- **Web Development**: MS Sharepoint, HTML, CSS, Javascript, PHP
- **Database Management System**: My SQL, My SQL server
- **Other tools & APIs**: skilled in Matlab, Scilab, Latex
- **Technical Tools**: Microcontrollers, Eagle, Spice, iVerilog

ACCOLADES AND EXTRA CURRICULAR ACTIVITIES

- Awarded **Certificate of Appreciation** by Dean of IIT Bombay for my Disciplinary work and Altruistic Efforts towards activities of National Service Scheme (NSS). This certificate was given to 15 students out of 250 involved
- Acted in a **short movie by MTV**(National Television Channel) based on the Hollywood Movie 'Inglorious Bastards'
- **Languages** – fluent in English, Hindi and German
- **Interests** - Chess(1st in Division), Inline Skating, Rubik's Cube solving, Solving Logic Puzzles and Cracking Algorithms