



Saurabh Mishra
Electrical Engineering
Indian Institute of Technology, Bombay

09007012
UG Third Year (B.Tech.)
Male
DOB: 01.06.1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.60
Intermediate/+2	CBSE	DAV Public School , Nerul	2009	93.40
Matriculation	CBSE	DAV Public School , Nerul	2007	97.80

ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 69** , **IIT-JEE 2009**
- **Represented India** in **Asian Physics Olympiad 2008**, held in Ulan Batar , Mongolia
- Ranked **All India 6** and **2nd** in state in **All India Secondary School Examination**, 2007 with **97.8%**.
- Recipient of the prestigious **National Talent Search Examination (NTSE)** scholarship awarded by the Govt. of India.
- Won **Silver Medal** in **Homi Bhabha Bal Vaidnyanik Exam** (conducted by **Greater Bombay Science Teachers Association**) in both 2006 and 2003.
- **Gold medalist** in **Ganit Pradnya Examination** (Conducted by **Maharashtra Ganit Adhyapak Mandal**) 2005.
- Among **All India top 100** in NSTSE conducted by Unified Council for **5 years**(2003-2007)
- Among **top 10 in India** in **DAV Talent Search Scholarship Exam**(conducted by DAVCCE) in the years 2005,2006,2007
- **High Distinction** in **Australian National Chemistry Quiz** conducted by **Royal Australian Chemical Institute** in 2006, 2007, 2008.Awarded **Silver Plaque** in the year 2006.
- **AIR-4** in **National Science Olympiad** in the year 2004
- **AIR-5** in **Nationwide Biotech Olympiad** in the year 2007.

RELEVANT COURSES UNDERTAKEN

ELECTRICAL-

- Network Theory,
- Digital Systems , Analog Electronics,
- Electrical Machines and Power Electronics ,
- Circuit Simulation in Power Electronics ,
- Microprocessors ,
- Signals and Systems , Communication Systems ,
- Probability and Random Processes .

COMPUTER SCIENCE –

DiscreteDataStructures
Operating Systems
Data Structures and Algorithms

LABS –Communication Systems Lab , Microprocessors Lab , Experimental and Measurement Laboratory, Electronic Devices Lab, Digital and Analog Lab, Machines Lab.

AREAS OF INTEREST

Power Electronics , Digital Design , Embedded Systems , Algorithms

PROJECTS

- **FS UK 2012:2011**
-Part of *IITB Racing Team* and working on Electrical part of the electric car which is to be raced in FS 2012 , on Silverstone Circuit, UK.
-Working on motor control, battery management and powertrain of the car.
- **UID USING FINGERPRINT MATCHING:2009**
Course Project(Guide : Prof Deepak Phatak)
-Part of Computer Programming and Utilization Course.
-Was part of *minutiae detection* team.
-Developed the *algorithm* to find the minutiae using image processing in C++.

- **TARGET IDENTIFICATION AND SHOOTING:2010**
Summer Project(Under Electronics Club IITB)
-Used *image processing* (using *OpenCV*) and *microcontroller (ATMega 16)* to control a laser pointer using *servo motors* so that it points at the target.
-*Conceived the algorithm* for image processing and *built the robotic assembly*.
- **DIGITAL FOOSBALL:2011**
Course Project(Guide: Prof.Sachin Patkar)
-Developed the code for game of foosball(2 player) on bicolour LED matrix(5x10) and implemented it on *FPGA Board(Spartan) .*
-The coding was done in Verilog.
- **LDPC DECODER DESIGN (Ongoing) : 2011**
Summer Project (Guide: Prof.Sachin Patkar & Yash Bhagwat)
-*Verifying the working and implementation* of a pipelined decoder for LDPC, an error correcting code.
-Design being verified on the Xilinx Virtex-5 LX110T platform.
-Involved coding in VHDL.
- **CAMPUS UID(Ongoing):2011**
In-Semester Project(Under Technovation , STAB)
-Currently working on *communication(Ethernet)* and *validating unit* of this project.
- Validation is done using *barcode* of Student ID-card .
- **MUSIC PLAYER(Ongoing):2011**
Self Project
-Working on making a music player from scratch with proper display and controls
-The processor used will be *ATMega 128* and the songs will be stored in SD card.

EXTRA CURRICULAR ACTIVITIES

COMPETITIONS

- 1st prize in Science Quiz held at **National Science Festival KHOJ** conducted by **DAV Centre for Creative Education** in 2004.
- Stood 2nd in **Electronics Quiz** held at Aagomani(Technical fest of EE Dept IITB),2009
- Awarded **Vigyan Bhushan** for project on **Organic Farming (Vermiculture)** at **National Science Festival KHOJ** conducted by **DAV Centre for Creative Education** in 2006.
- Participated in Solar Splash , a solar boat racing competition held in **TechFest-2010** ,IITB
- Participated in **RC Car racing** competition held at IIT Bombay, 2009.

SPORTS:

- Won **Freshmen Football Tournament** in IIT Bombay,2009
- Participated in **Institute Football League** of IIT Bombay,2010
- **NSO –Football**,Spring-Autum-2009
- Played in Football and Hockey GC .Top goal scorer in intra hostel football league.

CULTURAL:

- Participated in **Ad Making GC** and **Book Cover Design GC**.

COMPUTER SKILLS

Languages: C,C++ ,Java, Python, SQL , PHP , Javascript , HTML ,Verilog HDL,VHDL

Softwares: MATLAB , Xilinx ISE,SEQUEL(IITB Circuit Simulator) PSpice , Eagle , Mathematica , AutoCAD, SolidWorks .Worked on both Linux and Windows.

DECLARATION

I , **Saurabh Mishra**, hereby declare that the above information is correct to the best of my knowledge