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 2 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, Electronic Devices and Circuits, Analog Circuits,
- Digital Systems,
- Electrical Machines and Power Electronics,
- Circuit Simulation in Power Electronics,
- Microprocessors ,
- Signals and Systems, Communication Systems,
- Probability and Random Processes.

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

o 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.

o 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++.

o TARGET IDENTIFICATION AND SHOOTING:2010

COMPUTER SCIENCE –

DiscreteDataStructures
Data Structures and Algorithms ,
Operating Systems

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.

o 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.

o 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.

o 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

- > 1 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 Electrical Engineering 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, IIT Bombay
- 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