



**Aakash Shah**  
**Electrical Engineering**  
**Indian Institute of Technology, Bombay**

**09007002**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 26-06-1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.63
Intermediate/+2	GSHSEB	Navchetan	2009	86.00
Matriculation	GSHSEB	The H.B.Kapadia New High School	2007	91.54

### ACADEMIC ACHIEVEMENTS:

- Ranked **60th** among over **4 lakh** students in IIT-Joint Entrance Examination 2009
- Qualified in **Regional Math Olympiad, 2006** from Gujarat by ranking in **top 20 students** statewide
- Secured all India rank of **1125** in AIEEE 2009 (All India Engineering Entrance Examination)

### PROJECTS:

#### Tracker Bot/ Bot Follower

[May-Jun 2010]

*Group Summer Project under Electronic Club of IIT Bombay*

- Built a robot that autonomously follows another robot based on **Image Processing**
- Developed code in C/C++ to take video inputs from an overhead camera; process it using **OpenCV** and **Blobslib** and give appropriate signals to the follower robot using serial port communication
- Learnt and Applied **PID controls**, PWM, UART communication, interrupts, timers in microcontrollers

#### Arkanoid - Arcade Game

[Feb-Apr 2011]

*Guide: Prof. Sachin Patkar & Prof. Udayan Ganguly*

- Designed and made an arcade game, which was basically a finite state machine, using an LED matrix for display as a part of digital circuits lab project.
- The design was made without using any micro-controllers, using basic digital ICs like muxes, demuxes, shift registers and logic gates

#### Wireless Transfer of Sensor Data

[Jul 2011 –Till date]

*Guide: Prof S. N. Merchant*

- Currently working on a project which involves measuring level of atmospheric pollutants and sending the data to the base station as well as selected devices via Bluetooth communication.

#### Unique Identification System

[Aug-Nov 2009]

*Guide: Prof. Deepak Phatak*

- Was part of a team which made a program for unique identification of students through fingerprint matching, under Computer Programming & Utilizations course

#### Op Amp Design

[Mar 2011]

*Guide: Prof. Anil Kottantharayil*

- Made the design of a four stage op amp with given specifications as a part of Analog lab
- Simulated the design on LTSpice to confirm the validity of the design and then implemented the circuit on breadboard.

#### Analysis of Mobile Market in India

[Nov 2010]

*Guide: Prof. Haripriya Gundimeda*

- Made a report on mobile markets of India as a part of Economics course
- Analyzed the past and present trends of the market structure, the current players and their market share, the market size and its growth

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## OTHER TECHNICAL INVOLVEMENTS

- participated in various competitions including Nexus,Crossover
- Did a summer training in PHP and SQL

[MAY-JUN 2011]

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## SOFTWARE SKILLS

- **Languages:**C/C++
- **Software Packages:**MATLAB,EAGLE,SPICE,OPENCV,VERILOG
- **Web Designing:**HTML,JAVASCRIPT,CSS,AJAX,SQL,PHP
- **Microcontroller:**WINAVR

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## KEY COURSES

- |   |                                    |
|---|------------------------------------|
| • Computer Programming and Utilization      | • Network Theory                   |
| • Calculus, Algebra, Differential Equations | • Machines and Power Electronics   |
| • Communication Systems                     | • Electronic devices and Circuits  |
| • Microprocessor                            | • Analog Circuits                  |
| • Economics                                 | • Digital Circuits                 |
| • Electromagnetic Waves                     | • Probability and random processer |
| • Psychology                                | • Experiment and Measurement Lab   |
| • Power Systems*                            | • Digital Communication*           |
| • Control Systems*                          | • Digital Signal Processing*       |

\*indicates courses to be completed by nov'11

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## TEACHING EXPERIENCE

- Teaching Assistant in the course MA-205,COMPLEX ANALYSIS and MA-207 ,DIFFERENTIAL EQUATIONS [Jul'11 – Dec'11 ]

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## POSITIONS OF RESPONSIBILITY

- Was a Coordinator in Techfest,2011 under Hospitality Department
- Was a Coordinator in Mood Indigo,2010 under Hospitality Department

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## EXTRA -CURRICULAR ACTIVITIES

- Was a part of NSO Swimming 2009
- Participated in Swimathon-2010 and awarded the certificate of excellence for swimming 12 hours at a stretch
- Participated in Tennis Camp held at IIT Bombay
- Learnt Tabla under Pandit Yashwantacharya for 1 year
- Took part in F1 racing competition

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## Declaration

I, Aakash Shah, hereby declare that the particulars given above are true to the best of my knowledge

