



Ankit Khandelwal  
Electrical Engineering  
Indian Institute of Technology, Bombay

09007032  
UG Third Year (B.Tech.)  
Male  
DOB: 20/09/91

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.99
Intermediate/+2	CBSE	SUBHASH PUBLIC SCHOOL	2009	89.00
Matriculation	CBSE	D.A.V PUBLIC SCHOOL	2007	92.80

## INTERNSHIPS

### ➤ SMS PLATFORM : Portfolio Management Fellow

InVenture Fund, Kancheepuram, Tamil Nadu

(Jun-Jul 2011)

- Primarily responsible for creating a **mobile reporting system** to streamline an easy and efficient communication between clients and database.
- Coordinated with team members in USA to **expand business** base in India
- Assisted in preparing **due diligence checklist** for micro business.
- Designed a **front end interface** for accessing necessary metrics.

## PROJECTS

### ➤ UNIQUE IDENTIFICATION :

ON-GOING PROJECT

- Created an interface to automate security access and issuing keys by using the barcodes inscribed on students' I-cards
- Interfaced a USB Shield with Arduino Microcontroller to send data to a central server using Ethernet Shield

### ➤ CHANGE DISPENSER MACHINE :

DIGITAL LAB COURSE PROJECT

GUIDE : Prof. Sachin Patkar

(Apr-May 2011)

- Implemented a design of a change vending machine on FPGA board.
- Optimized algorithms in Verilog, simulated in Xilinx and used standard ICs for calculations.

### ➤ ON AIR PROGRAM RECORDER :

SUMMER PROJECT

ELECTRONICS CLUB, IIT BOMBAY

(Jun-Jul 2010)

- Developed a SD Card based interface to record online F.M. songs.
- Interfaced ADC with SD card using serial communication and optimized the data transfer rate.
- Studied WAVE File format and modified the FAT 32 File system library code suitably.

➤ **FINGERPRINT ANALYSIS :**  
GUIDE : Prof. Deepak B. Phatak

COURSE PROJECT  
(Oct-Nov 2009)

- Worked in a team of 30 to record attendance of students based on biometric identification
- Implemented algorithms in C++ to identify minutiae, modify and sharpen images before matching them

## TECHNICAL SKILLS:

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- **Programming Languages:** C,C++
- **Scripting Languages:** HTML, CSS, JavaScript, PHP, MySQL
- **Software Packages:** Basic knowledge of Scilab and Matlab, Dreamweaver
- **Simulation Software:** Xilinx, ModelSim, IcarusVeilog, WinAVR, L.T. SPICE
- **Microcontrollers:** 8085, AVR, Arduino

## COURSES

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- Signals and Systems, Communication Systems, Probability and Random Processes, Data Analysis and Interpretation
- Digital Systems, Analog circuits, Microprocessors
- Electrical Machines and Power Electronics, Electromagnetism, Electromagnetic Waves
- Ordinary and Partial Differential Equations, Complex Analysis, Linear Algebra, Network Theory
- Economics, Managerial Economics, Introduction to Industrial Design, Script Writing, Psychology
- A beginner in French language

## EXTRA CURRICULAR ACTIVITIES

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### Position Of Responsibility:

- Department Academic Mentorship Program
  - Motivating academically weak students and enhancing interaction with professors
- Worked as an Organizer, Techfest '09 to coordinate the event Bascule Bridge

### Technical:

- Won the Electrified Challenge in the freshmen year conducted by Electronics Club which required solving problems related to Digital Electronics
- Participated in Avalanche Techfest '10, an image processing competition to distinguish rolling balls based on their color and move an autonomous bot to deposit them in the correct pit

### Socio-Cultural:

- Selected amongst the top 50 from more than 500 students for “Authors of Change” program by National Social Entrepreneurship Forum
- Beginner’s course in French Language