



<b>Sachin Kumar</b>	<b>10D070064</b>
<b>Electrical Engineering</b>	<b>UG second Year</b>
<b>Indian Institute of Technology, Bombay</b>	<b>Male</b>
<b>Specialization: Communication &amp; Signal Processing</b>	<b>DOB: 01-07-1992</b>

<b>Examination</b>	<b>University</b>	<b>Institute</b>	<b>CPI/%</b>
Graduation	IIT Bombay	IIT Bombay	5.78
Intermediate/+2	U.P. Board	R.R. Inter College	64.60
Matriculation	U.P. Board	R.P.V.M. Inter College	68.67

## Key Courses Undertaken (As per June, 2012)

### Core courses

- Introduction to Electrical Systems
- Introduction to Electronics
- Electronic Devices & circuits
- Network Theory
- Solar photovoltaic Theory & Application
- Electrical Machines and Power Electronics
- Signals and Systems
- Digital Systems
- Analog Circuits

### Practical courses

- Electronic Devices Laboratory
- Analog Circuits Laboratory
- Electrical Machines Laboratory
- Digital circuits Laboratory
- Experimental and Measurement Laboratory

### Mathematical courses

- Calculus
- Linear Algebra
- Complex Analysis
- Differential Equations
- Differential Equations II

### Other courses

- Environmental Studies
- Data Analysis and Interpretation
- Electricity & Magnetism
- Economics
- Chemistry
- Computer programming & utilisation

## Key Projects Undertaken

Micro mouse -- Under Guidance of Prof. D.B. Phatak

Worked as a part of 13 member team in developing a game using EZ-Windows. As a team member my job was to build mouse & direct it to the path.

**Line Follower** -- Under Guidance of Electronics Club

Work as a part of two membered team to make autonomous a line detecting bots.

## Technical skills

- Software skills –Linux, windows, Ez-windows, Photoshop, MS Office, MATLAB, Mathematica, SciLab
- Programming language – C/C++, JAVA, AVR, Verilog

## Extra-curricular Activities

Won **first prize** as a part of three member **mime**, a French art, team at **malhar-2011**, cultural fest of St. Xavier's College, Mumbai.

## POSITION OF RESPONSIBILITY

- **TECHFEST**  
Asia's largest Technical festival organised by IIT BOMBAY, being attended by 80-90 thousand participants and visitors.
- **Organiser - Robowars, Techfest-2011**  
As an organiser my job was to ensure that the bots are under prescribed specifications.
- **Coordinator - Hospitality, Techfest-2012**

Working as hospitality coordinator, my job is to ensure maximum comfort to the people attending Techfest, taking care of their accommodation & other needs.

- **Entrepreneurship Cell**

It's an IIT Bombay club for promoting entrepreneurship for IIT students. Eureka, Asia's largest business plan competition, with 2000 entries, 500 hundred judges & more than 100 mentors is organised by Entrepreneurship Cell.

- **Organiser – Corporate Relations**

As an organiser, I was responsible for taking care of judges & speakers attending Eureka & E-Summit.

- **Coordinator – Corporate Relations**

As a coordinator, I am responsible to find best possible judges & mentors for Entrepreneurs participating in Eureka. I am also required to find best possible speakers for E-summit.

## **Research Interest**

Digital Circuits Design, Synthesis.

Semiconductor Device Application & Fabrication.

Solar Photovoltaic, Application & Fabrication.