Aishwarya R. Goyal   10D070018
Electrical Engineering   UG Second Year
Indian Institute of Technology, Bombay   Female
Specialization: Communication & Signal Processing   DOB: 20 April 1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.06
Intermediate/+2	Central Board of Secondary Education	First Step Senior Secondary School,Chhindwara	2009	93.20
Matriculation	Central Board of Secondary Education	First Step Senior Secondary School,Chhindwara	2007	96.40

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 244** in **IIT JEE 2010** among 4.7 lakh students who appeared
- Stood **first in district** in 5th(97%), 8th(95.6%), 10th and 12th
- Secured **All India Rank 733**(State Rank 51 Madhya Pradesh) in **AIEEE 2010**
- Scored 352 out of 450 in BITSAT 2010 (entrance exam for Birla institute of technology)
- Awarded **Certificate of Merit in Mathematics** for being among the top 0.1% students in CBSE 10th board 2007
- Secured **AIR 108** (State Rank 3 in Madhya Pradesh) in **International Olympiad of Mathematics** 2008 organized by Mathematics Olympiad Foundation, New Delhi
- Secured **AIR 92** in **NSTSE 2008 (Unified Council)** and got a certificate of appreciation
- Qualified **first level** of **National Talent Search Examination 2007**
- Certificate of successful participation in **National Science Olympiad** (qualified first level) thrice

TECHNICAL ACTIVITIES AND KEY ACADEMIC PROJECTS

- *IMAGE EDITOR* : Course Project   (Autumn Semester 2010)
  Guide: Prof. D. B. Pathak
  - Project for the course Computer Programming and Utilization in first semester.
  - Worked in a team of four and made a C++ program that enables a person to manipulate visual images on a computer with effects like cropping, grayscale, rotation, changing RGB (red, blue, green) values, flipping, etc

- *DEVICE OPENING PROJECT* : Course Project (Spring Semester 2011) Guide: Prof. Juzer M. Vasi
  - Project for the course Introduction to Electronics in second semester.
  - Worked in a team of two. Opened up a mobile and studied its circuit like the electronic devices used and the logic circuits implemented for its various operations.

- *HOSPITAL MANAGEMENT PROJECT*: Course Project   (Jan 2009-Feb 2009)
  - Project for the course Informatics Practices in Class 12th.
  - Designed the software using Visual Basics and Microsoft Visual Studio for coding and graphical user interface parts, simultaneously.
  - The purpose of software was automation of hospital management

- *NEXUS: BEHIND ENEMY LINES* :   (Techfest 2011-12)
  Started making a bot in a team of 4 but could not complete it

- *TRACKMANIA*:   (Robotics Club, IITB 2010)
  Successfully made a remote-controlled race car, using servo motors and IC circuits, to be raced on uneven terrain in a team of 4 for this competition

- *LINE FOLLOWER*:   (Robotics Club, IITB 2010)
  Successfully made a line following robot in a team of 4 and learned about arduino coding while doing this

SOFTWARE SKILLS

- *Programming languages:* Visual Basics, C, C++, Python , JAVA
- *Software Skills:* MATLAB, MS Office, LTSpice
- *Operating System:* Windows, Linux

POSITION OF RESPONSIBILITY

- **Winter intern** (December 2011)
  Worked under **Ekjaa organization** for the education of underprivileged children. In this collaborated with NGOs, pitched them to funding agencies and monitored the project's impact.
- Taught **Physics** in **CBSE board** school for a month
- Worked as an **Organizer, Techfest** IIT Bombay 2011, wherein worked closely with coordinators to handle **Robotics Exhibitions** which were central attraction to the crowd
- Worked as a **Coordinator, Techfest** IIT Bombay 2012, which involves arranging lectures by various prominent speakers from India and overseas over a variety of subjects
- Worked as a **TechMentor** for **TechONE**, presented by Robotics Club IIT Bombay for the first year students(2011 batch)

EXTRA CURRICULAR ACTIVITIES

- Completed **Visharad (Bachelor of Music**) in **vocal** from Prayag Sangeet Samiti, Allahabad – Prabhakar Examination session, 2008
- Qualified first year in classical dance **Kathak** from Prayag Sangeet Samiti, Allahabad 2003-04
- Have won several awards in **badminton** on **district level**
- Was involved in all sports' events in school and won a lot of prizes like **Player of the Match** for girls cricket, etc
- Volunteered in **National Service Scheme** (Educational Outreach dept.) in spring semester, 2011
- Learned writing **Urdu** language and **painting**
- Successfully participated in camps for **basketball** and **badminton** and won certificate of appreciation for the dedication and excellent performance
- Took part in open Mixed Cricket and open Mixed Badminton at IIT Bombay and reached finals
- Went on an **Industrial visit** to **Dhirubhai Ambani Knowledge Centre,** Navi Mumbai organized by Electrical Engineering Students Association
- Was active with the NGO- **HelpAge India** and raised money for the old people
- Was a member of the team that built the sets for Performing Arts Festival (PAF) -2010

COURSES COVERED (By April 2012)

- *CORE COURSES:* Introduction to Electrical Systems, Introduction to Electronics, Network Theory, Electronic Devices, Signals and Systems, Analog Circuits, Electrical Machines and Power Electronics, Digital Systems
- *MATHEMATICS:* Calculus, Linear Algebra, Differential Equations, Complex Analysis
- *OTHER COURSES:* Chemistry, Economics, Electricity and Magnetism, Computer Programming and Utilization, Data Analysis and Interpretation, Environmental Studies, **Fluid Mechanics and Thermodynamics**(pursuing **minor** in **mechanical engineering**)
- *LABS:* Electronic devices lab, Analog Circuits lab, Digital Circuits lab, Machines lab, Physics lab, Chemistry lab, Workshop Practice, Engineering Graphics and Drawing, Experimental and Measurement lab, Measurements lab