Akshay Joshi   11D070055

Electrical Engineering   UG Second Year

Indian Institute of Technology, Bombay   Male

Specialization: Microelectronics   DOB: 07-01-1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	7.86
Intermediate/+2	CBSE	Rajiv Gandhi Higher secondary school,bhopal(M.P.)	2011	91.20
Matriculation	CBSE	Kendriya Vidyalaya sarni (M.P.)	2009	90.20

Academic Honor's :

- Secured the 245th Position (top 0.049%) in **IIT-JEE 2011**, the entrance examination to Indian Institute Of Technology.
- Secured the 450th position (top 0.045%) in **AIEEE 2011**, the entrance examination to National Institute Of Technology.
- Secured 1st rank in **CG PET 2011 (Chhattisgarh Pre Engineering Test)**, given by more than 50,000 students and was awarded by RPS TYAGI (Korba district collector) for the same.
- Was among top 0.045% in **National Level Science Talent Search Examination[NSTSE 2009]**
- Active participation in Junior Mathematics Olympiad 2008 with merit certificate.

Position Of Responsibility :

- **ASMP (Alumni Student Mentorship Program) Core Team Member , SARC (Student Alumni Relation Cell)**   **[August 2012-April 2013]**
  - Providing students a platform for one to one interaction with their esteemed alumni.
  - One Of the 6 team member's, got selected through 2 Stages of rigorous interviews by ex-team members having 31 applicants.
  - Dealing with various problems to improve relations between mentor and mentee.
- **Tech Mentor In XLR8 (A Bot Making Competition) For 1st Year Students**   **[Sept 2012]**
  - Counseled them regarding the competition level and pioneered them to participate in the competition.
  - Nurtured their knowledge in technical activities, assisted them to make bot.
- Worked as an Organizer in **Mood Indigo 2011, Techfest 2012 , E-Summit 2011.**
- **Called over 100 Alumni Of IITB during phonathons Conducted By SARC s(Student Alumni Relation Cell) as a Coordinator in SARC.**

Projects and Technical Accomplishments :

- **Institute Technical Summer Project [Rubik's Cube Solver]**   [Summer 2011]
  - Made a Robotic bot which can solve a **Rubik's cube [3x3]** in less than 3 min.
  - Required Coding work which was done using MATLAB and C++ language, an electrical circuit was made in LT SPICE Software and implemented on breadboard .
  - Project exhibition was done in Institute Technical Exhibition 2012.
- **Tech-One car making competition.**   [August 2011]
  - Took Part in the **Tech-one** car making competition by successfully making a robotic car using PID implementation.
  - The car had to complete the track in minimum time along with tackling all the hurdles present in the track.
- **Line Follower**   [Sept 2011]

- Successfully made a **Line Following Car (named "Chhappal Bot")** in the line follower event and won the **'Best Design Award'** for it.
- Our car had to follow a white line drawn on a black rubber pad which was achieved with the help of an arduino board and light detecting sensors in it.

Internship:

> **Summer :**   [June 2012-July 2012]
  - Surveyed the work done in **Chhattisgarh State Electricity Board (CSEB) Korba (West)** for one month. Inspected all the departments relating electricity generation like turbine, boiler section, coal sampling plant, water treatment etc. Completed the project with a project report. In this project I did study of turbine, Induction motors working and applied concepts of Electrodynamics.

> **Winter :**   [December 2012]
  - Winter Internship at **Deeaar group (Deeaar Fossil Fuel's Private LTD.)** on Load Management Issues with these objectives
  - Carrying out data analysis of the tariff rates for different states, analyzing the various reasons and parameters involved in Tariff rates determination.
  - Understanding Electricity markets as a result of three different processes – **Generation, Transmission and Distribution.**
  - Understanding RECs (**Renewable energy certificates**) Solar RECs and non-solar RECs and how government policies are designed to incentivize Renewable energy production.

Computer Skills:

- Comprehensive Knowledge of MS Office, Visual Basic, Adobe Photoshop, LT SPICE, Keil, Labview (Basics), Sony Vegas software. Knowledge of windows, ubuntu and languages as C, C++, HTML, JAVA (basics).

Extra- Curricular Activities:

- Actively Participated in **National Tournament in Table tennis** Held in Hyderabad 2009. [Selected one of the 5 players from Bhopal region] along with in regional level in 2007, 2008, 2009.
- Won many prizes in **Science, Social Science Exhibition's** at regional level.
- Headed the Hostel 5 **Table Tennis General Championship (G.C.)** Team and participated in **Tech G.C**. 1. 2012 and was a member of NSO table tennis 2011-12.
- Was part of the IIT BOMBAY's Limca Book of Records and **Guinness** Book of World Records of maximum people solving Rubik Cubes at a time.
- Won potpourri and many literary competitions in **freshizza 2011** as well as in hostel.

Course Work:

Electrical Engineering	Introduction to electronic systems ,Introduction to electronics, Electronic devices and circuits, Network Theory, Analog Circuits(Pursuing), Signals & System(Pursuing), Electrical Machines and Power Electronics(Pursuing), Digital Systems(Pursuing)
Mathematics	Calculus , Linear Algebra , Ordinary Differential Equations , Complex analysis
Physics	Electricity and magnetism , Quantum Mechanics I (Pursuing)
Lab	First year Chemistry lab , first year physics lab , Engineering Graphics & Drawing , Mechanical Workshop , Electronic Devices lab, Experimentation and Measurement lab, Analog Lab (Pursuing), Digital Circuits Lab(Pursuing), Machines Lab(Pursuing)
Others	Data analysis and interpretation , Chemistry , Computer Programming and Utilization , Economics , Introduction to Linguistics (Pursuing)