



Rishi Agrawal
Civil Engineering
Indian Institute of Technology, Bombay

100040067
UG Second Year
Male
DOB: 17 Dec. 1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.79
Intermediate/+2	C.B.S.E.	Shri Gujarati Samaj AMNEM School	2010	84.80
Matriculation	C.B.S.E.	Choithram School South Campus	2008	88.40

SCHOLASTIC ACCOMPLISHMENTS

- Ranked **1179** nationwide out of more than 470,000 (top 0.25%) students who appeared for **Indian Institute of Technology Joint Entrance Examination 2010**
- Ranked **1775** out of 1,000,000 students (0.2%) who appeared for **All India Engineering Entrance Exam 2010**.
- Cleared the initial rounds of esteemed exams like **KVPY** (Kishore Vaigyanik Prothsaahan Yojana) and **National Astronomy Olympiad 2010**.
- Was Internationally **Ranked 96** in **International Maths Olympiad** organized by **Science Olympiad Foundation** in 2008.
- Cleared initial levels of the exams conducted by **Science Olympiad Foundation** like **National Science Olympiad**, **National Cyber Olympiad** in 2008 as well as 2009.

PROJECTS AND TECHNICAL ACCOMPLISHMENTS

- **Remote Controlled Car** [August 2010]
 - Devised a remote controlled car using radio frequency transmitter circuit.
 - With an on-board power supply which could climb an inclined plane and could pass over grease and water.
- **Line Follower Machine** [October 2010]
 - Made an autonomous machine that had in-built sensor to detect a given track and then follow the same.
 - This machine could also move along the turns on the path.
- **Economics Project** [November 2010]
 - Under the guidance of **Prof. Haripriya Gundimeda** we made (a group of 4 people) a project on the **CURRENT SCENARIO OF TELECOM INDUSTRIES IN INDIA**.
 - In this project we talked about the telecom industries that are leading in India in both GSM and CDMA communications.
- **Chess Board Game on C++** [October-November 2010]
 - Headed a group of 12 people under **Dr. Deepak B. Phatak**
 - We made a graphical interface using **EzWindows** software.
 - This project was taken under **CS 101(Computer Programming and Utilization)** course.
 - The group wrote around **10,000 lines of code**.
- Made a **portal to host elections** in the hostel (council elections) and also made an **online complaint box** for people to post complains on the web. [August 2011]
- **Change Point Detection in 2 Mahanadi Basins** [Nov. 2011 – Jan. 2012]
 - We are using **Fuzzy Bayesian** method and **Matlab** to achieve the same.
 - Working under the guidance of **Dr. Deepashree Raje**, Associate Professor at **Indian Institute of Technology, Bombay**.

COMPUTER SKILLS

- Operating System- Windows, Linux, Mac
- Language- C, C++, HTML, PHP, Basic, JavaScript

- Software-MATLAB, Adobe Photoshop, Ms. Office

COURSES UNDERTAKEN

- MATHS - Calculus, Linear Algebra, Ordinary and Partial Differential Equations, Probability and Statistics, Advanced Differential Equations.
- DEPARTMENT COURSES – Engineering mechanics, Solid mechanics, Fluid mechanics, Numerical Analysis in Civil Engineering, Advanced Solid Mechanics, Structural Engineering, Hydraulic Engineering, Geodesy, Environmental Studies: Science and Engineering
- OTHERS - Physical, Organic and Inorganic Chemistry, Electromagnetism, C++, Economics, Engineering Drawing, Introduction to Electrical and Electronic circuits, Economics, Human Resources Management

TECHNICAL LABS

- Mechanical workshop: Learnt about and performed various mechanical techniques like welding, fitting, shaping, lathing etc.
- Engineering drawing: Studied various aspects and views of engineering drawing.
- Solid mechanics: Studied various types of stresses and strain acting on different bodies.
- Fluid mechanics: Learnt about different types of fluid mechanisms, flow measuring techniques.
- Hydraulics Design Lab: Did seepage analysis using different methods, computation of surface profiles.
- Geodesy Lab: Learnt about surveying mapping using GPS, triangulation and traversing etc.
- Experimental and Measurement Laboratory; Learnt about some electronic devices
- Chemistry and Physics Lab.

EXTRA CURRICULAR ACTIVITIES

- Won **Second Prize** for **Dramatics** in a competition in the institute. (Amongst 600 students)
- Successfully finished training from **National Sports Organization (NSO) athletics** for two semesters in the year 2010-11.
- Member of **inter IIT camp** for the inter IIT sports 2010 held in New Delhi.
- I am actively involved in many of the **literary events** happening on or off campus.
- Passed first level exam of **classical Harmonium** organized by **GANDHARV MAHAVIDYALAY**.

POSITIONS OF RESPONSIBILITY

- Currently holding the post of **Computer and Web Secretary** of the Hostel.
- Coordinator** for Mood Indigo – 2011, and **organizer** for Mood Indigo – 2010 the annual cultural fest of IIT Bombay. (Asia's Biggest College Cultural Festival). (I was responsible for the **registrations of over 75,000 participants** in the event.)
- Coordinator** for Techfest – 2012, and **organizer** for Techfest – 2011 the annual technical festival of IIT Bombay. (Asia's Largest College Technical Festival).
- Worked as an **organizer** for **AAKAR**, Civil Department Festival, IIT Bombay. Currently working as a **coordinator** for the same.

SKILLS

- Can read **braille** language.
- Knows how to play **basic Guitar** and the **piano**.
- Knows basic **German**.
- Likes to hum and listen to **music**.
- I am a **good trekker** and have gone on a **nature study cum trekking camp** at Dobhi (Bihar) to a height of **10,000 ft**.
- Passionate novel reader**.