



Rahul Kumar
Chemical Engineering
Indian Institute of Technology, Bombay
Specialization: None

110020052
UG Second Year
Male
DOB: 01/08/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.04
Intermediate/+2	BSEB	Govt. (+2) High School	2010	72.80
Matriculation	BSEB	Govt. (+2) High School	2008	84.40

KEY ACADEMIC PROJECTS

Anthropogenic Changes in Coastal Region

[Aug'12-Present]

Guide- Prof. Arun B. Inamdar, CSRE Department, IITB

- Learning the various applications of Remote sensing and Geographic Information System
- Diagnosing anthropogenic changes like temperature change, amount of unwanted chemical dissolved in water in coastal region using GIS and Remote Sensing techniques

ETvision 2035, TIFAC Department of Science and Technology India

[Aug'12-Present]

A Government Initiative for better energy future

- Working as a Group Committee Member and Contributing in making a final report of Geo, Ocean and Tidal Group containing ideas for a better energy future to be submitted to the Govt. of India

Industrial Visit: Rashtriya Chemical and Fertilizers, Mumbai

[Jan '12]

Guide – Prof. Sanjay Mahajani, Chemical Engineering Department, IITB

- Successfully completed a training program on “Production of Sulphuric Acid” at RCF, Mumbai
- Studied and observed the process incorporated for the manufacture of sulphuric acid and the various techniques used to optimize the energy requirements of the plant

TECHNICAL ACTIVITIES

Wall Painting Robot

[May'12-Jun'12]

- The robot once initiated can autonomously paint the wall from one end to other
- Developed a mechanical method than can complete above task using single D.C motor only

Bot from Scrap

[Apr'12]

- Fabricated a bot which can run over smooth surfaces and takes turn on finding obstruction
- Used only mobile vibrator, brush and many other scraps

Line Following Bot

[Sep'11]

- Built an autonomous robot which can follow a white painted path on a black background
- Implemented differential drive mechanism and pulse-width modulation for line following

Remote Controlled Racing Car

[Aug'11-Sep'11]

- Designed and fabricated a **remote controlled car** using radio frequency for the Intra College Event and cleared a circular obstacle path

POSITION OF RESPONSIBILITY

Coordinator, Maths and Physics Club IIT Bombay

[Apr'12-Present]

- Organized workshops, competitions, various talk sessions, help sessions for freshmen of IITB

Coordinator, Techfest Asia's Largest Technical Festival

[Jul'12-Present]

- Leading a group of 10 organizers for conceptualizing and execution of various informal events, competitions, ambiance under **On the spot Zone**

Organizer, Azeotropy

[Mar'12]

- Participated in execution of the competition Age of Chempires and handled setup of equipment

ACADEMIC ACHIEVEMENTS

- Pursuing minor in **Energy Science** department
- Secured a rank within **top 1%** students in the country in **IIT-JEE** [2011]
- Felicitated by district education officer for **1st position** in district in **10th board** [2008]
- Awarded by *Hindustan Pratibha Samman* for **1st position** in school in **10+2 board** [2010]
- Represented school and received Medal by *District Administration, Patna* for **1st position** in district in Quiz competition [2010]
- Recipient of **IIT Bombay heritage fund scholarship** [Jan'12-May'12]

SOFTWARE SKILLS

- Programming Languages : C, C++, SCILAB
- Web Tools : HTML, CSS
- GUI Tool : Microsoft office, Adobe Photoshop

KEY COURSES UNDERTAKEN

CORE

- Chemical Engineering Thermodynamics
- Fundamental Of Heat And Mass Transfer
- Introduction To Transport Phenomena
- Solid Mechanics
- Process Fluid Mechanics
- Introduction To Numerical Analysis
- Introduction To Chemical Engineering

Breadth

- Energy Resource Environment and Eco.
- Computer Programming And Utilization
- Data Analysis And Interpretation
- Economics
- Environmental Study
- Science And Engineering
- Experimentation And Measurement

EXTRA CURRICULAR ACTIVITIES

National Cadet Corps

- Attended the annual training camp held at IIT Bombay [28 Non'12-7 Dec'12]
- Completed **B certificate National Cadet Corps (NCC)** training in 2011-2012

School Representative

[2007-08]

- Prepared monthly reports of the school as required by government officials during inspection

Sports

- Successfully completed the **table-tennis camp** under a professional teacher in summer 2012

Cultural

- Participated in various hostel cultural events like Matki Phod, Cultural Night, Dussehera

