



Parth Loya
Civil Engineering
Indian Institute of Technology, Bombay
Specialization: none

110040068
UG Second Year
Male
DOB: April 5 1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.06
Intermediate/+2	CBSE	St. Paul's Convent School	2011	95.00
Matriculation	CBSE	St. Paul's Convent School	2009	95.20

COURSES UNDERTAKEN

- Advanced Mathematics (Calculus, Linear Algebra, Differential Equation)
- Computer Programming and utilization(**C++ , Java , HTML,MYSQL**)
- Electrical and Electronics , Electricity and magnetism
- Mechanics(Engineering Mechanics, Solid Mechanics, Fluid Mechanics)
- Data Analysis and Interpretation
- Principles of Micro – Macro **economics**
- Have **applicative** experiences in – fluid lab , heavy structure lab, material lab ,mechanical workshop , physics lab and chemistry lab

INTERNSHIPS AND PROJECTS UNDERTAKEN

Current Project – Investigating How Packing Density Affects Concrete Properties (July 2012-)

Guide – Prof. Prakash Nanthagopalan

- With the help of **Puntke test** , packing density is determined which is compared with strength and flow properties of composition
- With the help of test we could also see how **Superplasticizer** could be optimized.
- This project will then move on to **design high strength concrete**

Summer Intern – Analysis of Concrete Properties

(May-June 2012)

Guide – Prof. Prakash Nanthagopalan

- Read and presented **exhaustive set of booklets** pertaining to Concrete Mix Design , Steel Reinforcement , Steam curing , Durability , Repair work
- Read various **scientific papers** related to how packing density affects properties of concrete
- Examined and **executed popularly adopted construction methods** and practices like Mini Slump test, Puntke Test, Mortar mixing, Concrete mixing.
- Presented summer intern research in **Poster Symposium 2012** conducted by SPUR,IIT Bombay

Technoholi: Cardboard Vehicle

(March 2012)

- Moving Vehicle with its tires and framework **developed entirely of paper** and cardboard which was able to sustain weight **of 80 kg** and could be manually pushed to cover long distances in short time
- Were among **top 3 teams** that could actuate this concept into reality.

Line Follower Switch Control Bot

(October 2011)

- Made color sensors based on LED and integrated it to Microprocessor
- Bot could detect white line on the black surface and was able to run on it
- It was able to detect crisscrossed paths of white lines.

Techone Project - Remote Control Bot

(September 2011)

- Microprocessor(arduino) , IC(L293D) , RC circuit were integrated to the chassis
- It had the ability to move to/fro and take rotations(differential mechanism)
- Were among **top 20 teams** who could complete the task among 200 teams of IIT B
- The boat was able to run through various terrains(plane, slope, zigzag road, jump) and surface(tiles, soil)

Science Tour : Vigyan Manthan Yatra

(December 2009)

- Interacted with **eminent scientists and professors** of WIHG, FRI, IIT Roorkee, and ONGC, Dehradun on a science tour arranged for merit students by Govt. Of Madhya Pradesh
- Was awarded scholarship based on the quality of observations made.

POSITIONS OF RESPONSIBILITY

- **Hostel Debating Secretary** (August 13 , 2012 onwards) - Arranged workshops , sessions and intra hostel events of debating genre with the help of seniors.
- Was **Chief organizer**, felicitation function 2012(June 2012) - Planned and effected function to celebrate selection of junior students into IIT managing budget of over 1 lakh rupees.
- **Reporter, Insight** (Student's Media Body, IITB)(Jan 2012 onwards) - Raised various problems and issues faced by students of the campus, mediated it to concerned authorities and actively compiled them for the bimonthly newspaper " INSIGHT ".
- Working as **coordinator in Media dept.** of Mood Indigo 12
- Was **School Captain**(April2010-March2011)and organized various cultural events

AWARDS AND ACHIEVEMENTS

- Got **AA in economics** (basics of micro-macro economics)
- Runner up at **fresher's debate open**, IIT Bombay 2011
- Awarded **Merit cum Means** scholarship by IIT Bombay
- Was awarded certificate of excellence in Mathematics and English for being among **top 0.1%** out of over 10 lakh students who had appeared in CBSE 12 (2010 – 2011)
- Was conferred scholarship by Mission Excellence, Madhya Pradesh, based on the observations and quality of science tour accomplished
- Was awarded certificate of excellence in Mathematics and Science for being among **top 0.1%** out of over 12 lakh students who had appeared in CBSE 10 (2008 – 2009)
- **Topped District** in CBSE higher secondary exam, 2011
- **Topped District** in CBSE higher school, 2009

EXTRA ACTIVITIES

- Consistently represented institute in national and regional **debates** (NLS, ND, St. Xavier's).
- Successfully completed a professional course in Table tennis (May 2012)
- Member of **National Services Scheme** (2011-2012)
- Worked as organizer in Mood Indigo 2011 having footfall of 72000 college students across the globe.
- Worked as organizer in Techfest, 2012 the biggest technical festival of Asia.