

ACADEMIC ACHIEVEMENT

- Currently **Ranked 2nd** out of 116 in the Department of Civil Engineering, IIT Bombay
- Secured **two AP** grades in Civil courses for **outstanding performance** in the batch
- Secured **10.0** Semester Performance Index in third semester
- **Semester topper** in second and third semester
- Secured All India Rank **1441** out of **486000** candidates in **JEE 2010**.
- Secured All India Rank **1856** out of **in AIEEE 2010** and **208** in the state
- Secured **2nd** rank in **Mathematics Olympiad** at the state level

INTERNSHIP

University Roma tre, Rome, Italy

Guide: Prof. Nicola L. Rizzi

(May'12-July'12)

- Collaborated with research group working on **buckling** and **post buckling analysis of Thin Walled Frames**
- Focused on **numerical simulation** of problems concerning Thin Walled Beams that are relevant both from modelling and technical point of view
- Analysed frames in linear elastic range by **SAP** and successfully compared results with experimental ones
- Performed **buckling** and **post-buckling analysis of frames** affected by **initial imperfections** using **Abaqus**
- Presented results in a seminar at Department of Studies on Structures, University Roma tre
- Results obtained were presented in a **conference at Technion-Israel institute of technology** by professor

PROJECTS

Impact Echo

-Prof Sauvik Banerjee

(Jun'12-till date)

Aim to develop a new **technology** to **detect voids** and **defects** in structures (cement and steel structures) using **non-destructive method** (impact echo method) by deploying an array of source and sensors without affecting the durability and health of the structures

Portland cement Pervious Concrete

-Prof. Prakash Nanthagopalan

(Dec'11-till date)

Aim to improve the **strength** and **durability** properties of the **Portland Cement Previous Concrete** (PCPC) while maintaining the permeability characteristics for possible application in **pavement shoulder** and **local roads**

Snakes and Ladders

-Prof. Deepak B. Phatak

(Sept'10-Nov'10)

Developed an **interactive visual GUI application** using C++ and EzWindows framework to simulate the well-known game, Snakes and Ladders and **led a team** to developed a 2D array based algorithm to define the player position and movement

COURSE PROJECTS AND EXPERIENCE

- Practical Training** *Guide: Prof. Kamal Bajoria* (Mar'12)
Work visit at ADDRESS, a residential society project undertaken by **L&T Ltd** to gain practical knowledge of **shuttering, blocking, reinforcing bar arrangement** and **curing** of cement
- Yamuna Expressway** *Guide: Prof. Karuna Jain and Prof. Pankaj dutta* (Aug'12-till date)
Studying the **criteria of site selection, Cost Analysis, Project Schedule** and **Risk Analysis** of the Yamuna Expressway Project
- Marketing Analysis- Amul Pvt Ltd.** *Guide: Prof. Dinesh Sharma* (Feb'12-Apr'12)
Carried out detailed study on current **Segmentation, Target Market** and **Marketing Mix** employing **SWOT, 4P** and **PESTLE** analysis techniques for Amul Pvt. Ltd

TECHNICAL ACTIVITIES AND ACHIEVEMENTS

F-1 race

Led a team of 4 members to **design and fabricate** a functional model of a **4 wheeled drive wireless car**, utilizing the idea of **differential turning**, for a circuit with obstacles.
Ranked in **top 10** among more than **400** students who participated

Line Follower

Designed and fabricated a **line following robot** by programmable **arduino** board in a team of 3 members.
Designed **infrared color sensors** and optimized the sensors for ambient light protection

POSITION OF RESPONSIBILITY

- **Marketing Coordinator** for AAKAAR annual technical festival of Department of Civil Engineering
Arranged meeting with bank sector officials to convince for sponsorship through negotiations
- Awarded the **PAF SPECIAL MENTION** for contribution in the field of **fine arts and production** to the Performing Arts Festival, biggest intra hostel dramatic competition
- **Crowd Manager** and **Interview Coordinator** in campus placement 2011
Managed the schedule of interviews and bridged between interviewer and interviewees
Only sophomore to work as interview coordinates

KEY COURSES UNDERTAKEN

- **Departmental courses** -Mechanics (fluid, solid, structural and engineering), Geotechnical Engineering
- **Mathematics** - Calculus: Differential calculus, Data analysis and Interpretation, Linear algebra
- **Management courses** - Pursuing **minor degree in Management**
Accounting and finance, Marketing, Project management
- **Others** - Economics, Electrical and Electronics Circuits, Psychology, computer programming

COMPUTER AND SOFTWARE SKILLS

- **Programming languages:** C/C++
- **Operating Systems:** Windows, Ubuntu Linux
- **Software Packages:** Abaqus, Sap2000, LabVIEW, Microsoft Office, Sony Vegas, MatLab, SolidWorks

EXTRA-CURRICULAR ACTIVITIES

- **Guinness World Record Holder**–Part of the largest group in the world solving the Rubik's Cube simultaneously
- Participated in UG Research Symposium'12 at IITB
- Completed a course under National Sports Organization (**NSO**) in **Kho-kho**
- **Manager** of the runner-up **volley ball team** at annual hostel tournament
- Other sports - Swimming, skating (roller and inline), football, volley ball, jogging, judo
- Secured **2nd** and **3rd** **positions** in competitions organised by Rajasthan state **skating club**