



**Rachit Maheshwari**  
**Civil Engineering**  
**Indian Institute of Technology, Bombay**

**09004001**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 06/02/1990**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.41
Intermediate/+2	C.B.S.E	Campion School	2008	82.80
Matriculation	C.B.S.E	Campion School	2006	84.20

## ACADEMIC ACHIEVEMENTS

- Secured a **rank 1107** in **400,000 candidates (99.9 percentile)** who appeared for **JEE (Joint Entrance Examination)**
- Ranked among **top 0.2 %** in AIEEE (All India Engineering Entrance Examination) among **1 million students** who appeared for exam
- Awarded 'Credit in Science and Maths' by the **University of New South Wales** in International Assessments For School
- Was among the top 10% in 36100 candidates at 860 centres in **Indian Association of Physics Teachers National Standard Examination in Physics**

## INTERNSHIP

**University Of Rome**  
**Location :** Rome, Italy  
**Guide: Prof. Nicola Rizzi**, Department of Structures

**Department of Structures**  
**Duration :** May 2011– July 2011

- Prepared one dimensional and three dimensional model of the thin walled beam-column model using SAP2000
- Investigation into influence of the joint configuration on the torsional and buckling behavior of frames made up of thin-walled beams
- A detailed study in Warping effect and St Venant torsion were done in order to understand the effect of different joint's on the model
- Generated results were in accordance to the previous significant research done in this topic and were also verified with the model created on Comsol Multiphysics

**Tata Housing Pvt Ltd**  
**Location :** Boisar ,Mumbai

**Duration :** Winter 2010

- Ensuring of quality and pace of work on the site
- Performed cube test to ensure that concrete used in building was of desired strength
- Studied different methods used in making houses like mivan shuttering, roof housing, etc and various other aspects of engineering in building such as plumbing, water proofing, etc

## ACADEMIC PROJECT

- Torsion, Compression and Buckling Test**  
**Guide: Prof. N.K. Chandiramani**, Department of Civil Engineering, IIT Bombay
  - Detailed study and analyzed failure pattern in mild steel and cast iron
  - Calculated and compared the Modulus of elasticity, Stress and Plotted Stress-Strain distribution curves

- **Finger Print Identification Project**  
**Guide: Prof. Deepak B. Pathak**, Department of Computer Science and Engg. IIT-B
  - Developed a program that compares the fingerprint with the given samples and returns whether it is identical or not on the basis of comparison of minutia and it can be used in Banks or ATM's or in Office and School attendance
- **Analysis of Tea Sector(Economics Project)**  
**Guide: Prof. Haripriya Gundimeda**, Department of Humanities & Social Sciences, IIT Bombay
  - Analyzed the market structure, marketing tactics, market shares, current trends, brand value, consumer behavior, and classification of the companies as monopolist or oligopolistic type of tea market
- **Interactive Hospital Database**  
**Guide: Mr. Mahendra Kothari**, Department of Computer Science, Campion School, Bhopal
  - Developed a Hospital database allowing real time and interactive storage and retrieval of patient's information, using C++, employing Ez Windows, classes, arrays, etc

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## RELEVANT COURSES

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- Numerical Methods in Civil Engineering, Solid mechanics, Introduction to Electrical and Electronic circuits
- Calculus, Linear algebra, Structural Mechanics, Differential equation, Computer programming and utilization
- Data analysis and interpretation, Fluid mechanics, Geodesy, Hydraulics Engineering, Electrostatics and Magnetism, Engineering Drawing
- Fluid Mechanics, Soil Mechanics, Design of Structures, Water resources Engineering, Environmental Studies

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## TECHNICAL LABS

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- Mechanical Workshop, Solid Mechanics, Experiment And Measurement Lab, Geodesy Lab
- Hydraulic Design Lab, Design Laboratory, Soil Mechanics Lab

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## SOFTWARE SKILLS

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- **Programming Language** - C, C++, FoxPro
- **Operating System** - Windows, Linux/Unix
- **Other Software** - Auto CAD, SAP2000, Photoshop, Illustrator, Flash

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## POST OF RESPONSIBILITY

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- Worked as a **Co-ordinator** of **Entrepreneurship Cell**, IIT Bombay in **Publicity And Design Department**
  - Organized on and off campus publicity of events and designed flexes and posters for publicity
  - Contacted companies, incubation centres, cooperates, websites, colleges and start-ups for sponsorship
- Part of the organizing committee of **Mood Indigo** and **Techfest**

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## EXTRA-CURRICULAR ACTIVITIES

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- Have **speaking proficiency** in different languages like **French, English** and **Hindi**
- Was a part of NSS (National Social Service)
  - Site visits to estimate impact of the water crisis problems and methods feasible and economically viable to address the problems
- Have built a wireless remote controlled car and participated in the event 'F1 Car Race' held in IIT.
  - Conceptualized and implemented a working model of Robotic car using radio frequency transmitter circuit
  - Model was designed to manoeuvre through tracks of different materials and various obstacles
- Represented the school, amongst students from 7 countries, in the Bournvita Quiz Contest
- Coordinated for fund raising Activities for children with disability