

Nikhil Mittal
Civil Engineering
Indian Institute of Technology, Bombay
Specialization: Structural Engineering
Minor: Energy Science

UG Fourth Year (Dual Degree)

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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011*	8.78
Intermediate/+ 2	H.S.C. (Maharashtra Board)	Atomic Energy Junior College, Tarapur	2008	91.00
Matriculation	C.B.S.E	Atomic Energy Central School, Tarapur	2006	91.40

SCHOLASTIC ACHIEVMENTS

- Awarded Institute **Academic Excellence Prize** for being **best performing student** in **Civil Dual Degree batch of 2008** for the academic year **2010-11**.
- Secured an **All India Rank of 2046** in Joint Entrance Examination (JEE) 2008 in more than 350,000 students.
- Secured an **All India Rank of 2669** in **All India Engineering Entrance Examination** (**AIEEE**) among more than 800,000 students in **2008**.
- Placed in the **top 1**% of the candidates in Maharashtra in **National Standard Examination in Physics** in **2007.**
- Received Certificate of Merit in Maharashtra Talent Search Examination, 2005
- Secured State Rank 21 and All India Rank 217 in Nationwide Interactive Science Olympiad.
- Among top 20% in India in Mathematics exam conducted by The University of New South Wales, Australia in International Assessment for Indian Schools, 2004.
- Passed 47th All India Annual UN Information Test in 2004.

INTERNSHIPS

University of New South Wales, Sydney, Australia

May-July 2011

- Developed a method and algorithm to determine Elasticity Modulus of the soil given its Grain Size Distribution and physical properties of the material of the soil.
- The method has been adopted in a software that would ultimately design and has ability to analyze pavements for all sorts of inputs.

- Studied operation of a coal based Thermal Power Plant, with insight into working of each auxiliary and sub-system of the plant.
- Observed and **studied construction activities** of structures in the plant, with **special emphasis on construction of Ash Dyke and Railway Siding** (25 km rail, wagon tippler & track hopper system).

Reliance Power, Head-Office, DAKC, Mumbai, India

June 2010

- Studied town planning, master plan and architectural aspects of housing colonies for the employees at thermal Power Plant at Sasan (Madhya Pradesh) and Krishnapatnam (Andhra Pradesh), India.
- Proposed a new road level for the Krishnapatnam and Sasan colonies, minimizing the excavation and filling required from the ground level, amounting to savings of over Rs 70,00,000.
- Corrected structural drawings of various town buildings like Guest House, School etc.
- Studied **design of a gravity based sewage system** for the Krishnapatnam and Sasan Townships.
- Calculated a new rail embankment profile for railway siding for Butibouri Thermal Power Plant, minimizing the soil quantity used for embankment, thus resulting in huge savings.
- **Techno-commercial comparison of electrical fittings** luminaries, ceiling fans and exhaust fans and negotiation with the vendors.

COMPETITIONS AND PROJECTS

Formula SAE (Society of Automotive Engineers) Car

- Team member in developing **AGNI**, **Formula Student Racing Car** at IIT Bombay in **2009** which participated in **FSAE Silverstone**, **U.K.**
- The car won **2**nd **position** in **Cost Report event**, stood **9**th in **Business Case Presentation** and **58**th **overall** out of top 120 university teams worldwide.

Energy Audit

- Energy Audit on existing street lighting systems in IIT Bombay.
- Analyzed and suggested various methods of decreasing energy consumption for street lights in the campus.

Others

- Designed an **electronic circuit simulator** using C++ in 2008.
- Project on Energy Conservation (2007): Made a light sensitive switch which can be easily mounted on street lights so that they turn on only when it becomes dark.

POSITIONS OF RESPONSIBILITY

- Co-ordinator in Marketing and Media in Techfest 2010, IIT Bombay's science and technology festival, the largest in Asia. Contacted, negotiated with companies for association with Techfest.
- Organizer in Marketing and Lecture Series for Techfest 2009.
- Organizer in Mood Indigo 2008, IIT Bombay's cultural festival, the largest in Asia.

EXTRA-CURRICULAR ACTIVITIES

- Sports
 - > Selected for **Badminton** training and conditioning **camp for Inter IIT 2010**. Among **top 8 players** of IIT Bombay in **first year** in **Badminton**, **Table Tennis and Lawn Tennis**.
 - ➤ Part of Hostel Badminton, Table Tennis, Lawn Tennis and squash teams to represent hostel in inter hostel General Championships, held every year.
 - ➤ Received Hostel Special Mention for excellence in performance in Sports for the year 2009-2010.
 - > Participated and won many school and inter-school Badminton and Table Tennis tournaments.
- Others
 - > Stood **first** in **school debates**, was a member of the **school debating team**.
 - ➤ Won many prizes in school in **Hindi and English elocutions** and **quiz competitions**.
 - ➤ Interest in Photography.

SOFTWARE PROFICIENCY

- Microsoft Office
- Fortran
- AutoCad
- Scilab
- SAP2000, ETABS (structural design and analysis softwares)