

AJINKYA RAJADHYAKSHA

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EDUCATION

Year	Degree/Certificate	Institute/School, City	CGPA/%
2008-present	Btech, Civil Engineering with Mtech in Structural Engineering	Indian Institute of Technology, Bombay	8.7
2008	HSC, Maharashtra Board Class XII	D.G.Ruparel College, Mumbai	89.17
2006	SSC, Maharashtra Board, Class X	I.E.S's Modern English School, Mumbai	91.73

ACADEMIC ACHIEVEMENTS

- Secured 3rd place at the Western Zone of the Bending Moment Competition, the largest civil engineering quiz competition in India.
- Secured admission at IIT Bombay with '**All India Rank - 2064**' among 3,50,000 students in the IIT-JEE 2008.
- Secured **Pravinya** as well as **Pradnya** (Mathematics examination) in 8th standard. (2004-05)
- Merit holder in the **Brihan- Mumbai Talent Search Examination**. (2003-04)
- Secured **22nd Rank** in the **High School Scholarship Examination** conducted by the Government of Maharashtra, India. (2003-04)
- Secured **6th Rank in Maharashtra State** in the English exam which was conducted by Navhind Dnyanpeeth. (2001)
- Secured **Distinction** in Science and Mathematics exams conducted by **The University of New South Wales**, Australia in International Assessment for Indian Schools. (2001)
- Secured **18th Rank** in the **Middle School Scholarship Examination** conducted by the Government of Maharashtra, India. (1999-2000)

COURSES UNDERTAKEN

- **Core:** Solid Mechanics, Structural Dynamics, Advanced Solid Mechanics, Introduction to Finite Element Methods, Design of Structures-I, II and III, Engineering Mechanics, Structural Mechanics-I and II, Soil Mechanics-I and II, Geodesy, Fluid Mechanics, Hydraulic Engineering, Transportation Engineering-I and II, Traffic Analysis and Design, Probabilistic and Statistical Methods in Civil Engineering, Solid Mechanics Lab, Fluid Mechanics and Hydraulic Design Lab, Analysis and Design Software Lab.
- **Non-Core:** Introduction to Economics, Programming in C++, Differential Equations, Linear Algebra, Calculus, Energy Management, Introduction to Renewable Energy Technologies, Hydrogen Energy, Materials and Technology.

PROJECTS AND RESEARCH

Advanced Seminar

November 2011

Title: '**Typologies of buildings on the basis of seismic vulnerability**

Guide: Prof. Ravi Sinha, IIT Bombay

- The seminar involved understanding of seismic vulnerability assessment methodologies and the various scales of measurement.

- It also incorporated the understanding of the variation of vulnerability on a regional scale and the changes in the vulnerability on the basis of various parameters like material of construction, foundation, height, seismic mass, etc.
- Various papers and existing post earthquake data on a global scale were considered in understanding of the subject.

Summer Internship at S.N.Bhobe and Associates Pvt.Ltd Design Consultancy

May-July 2011

- Involved with the proof checking work of the footings and columns of a G+9 residential building in Vile Parle, Mumbai, India.
- Had industrial training at the flyover sites of Manpada, Patlipada, Vaghbil and Kapurbawdi in Thane.
- Supervised the work at the casting yard of the flyover segments at Mankauli and batching plant at Gaaymukh, Thane, India.
- Had field training at a sky walk outside Grant Road Railway Station and a naala construction in Govandi, Mumbai, India.

Intel International Science Talent Discovery Fair

December 2004

Title: 'Industrially Important Products from Agricultural Waste – Developed Specially for INDIA'

Guide: Prof. A. B. Pandit, Oils and Fats Division, MUICT, Mumbai

- Selected for the **National level** at the Intel International Science Talent Discovery Fair held in the Anna University, Chennai.
- The project aimed at developing a simple, workable and environment friendly method for the recovery of silica from rice husk ash.

Street Lighting Audit

March 2010

- Did an audit on the existing street lighting in IIT Bombay.
- Suggested measures for decreasing the energy consumption of the lighting system.

Aryabhatta Science Exhibition

December 2003

- Presented the project titled '**No tension with Surface Tension**' at Inter School level in Mumbai. It dealt with the basic principles of Surface Tension and its applications in day to day life.

Sudoku Solver

November 2008

- Successfully written and executed a Sudoku Solver code in C++ as a Computer Programming project at IIT Bombay. The Sudoku Solver could solve simple 9 by 9 Sudoku puzzles.
- The program took as an input row, column and value of given entries and ran a loop through the grid till all the possible cells were filled up.

F1 mechanical bot race

September 2008

- Successfully made a wired racing bot and participated in the F1 race organised in the 1st year Engineering at IIT Bombay.
- The challenges for the bot included an incline of 30⁰, wading through 2cm of water and rough terrain of pebbles.

SOFTWARES AND PROGRAMMING SKILLS

- Microsoft Office
- AutoCAD
- SAP2000
- StaadPRO

- **ETABS**
- **Scilab**
- Programming in **C++**

POSITIONS OF RESPONSIBILITY

Class Representative, Dual Degree Batch 2008

July 2011 onwards

- Serving as an intermediary between the professors and the students regarding academic as well as non-academic issues.

Volunteer in Placement Programme, IIT Bombay

December 2010

- Monitored the proper organisation of the interviews.
- Ensured the smooth running of the entire on-site process right from the arrival of the companies on campus till the end of the entire process.

Organiser in Mood Indigo

December 2008

- As a member of the **Competitions** team for Mood Indigo, IIT Bombay's Cultural Festival, the largest in Asia, actively helped in organising the Debating event.
- Helped in organising the event Radio play which was a shadow drama.

EXTRACURRICULAR ACHIEVEMENTS

Sports

- Completed training and acquired proficiency in Swimming, Lawn Tennis, Cricket, Table Tennis and Snooker.
- Participated in various intra-hostel and intra-departmental sports competitions like table tennis and carom. Also member of the hostel khokho team.

Others

- Passed **Elementary** and **Intermediate** Drawing exams. (2003-04)
- **Yellow Belt Holder** of the Martial Arts from Fudoshin Martial Arts School.
- Successfully completed '**Aero-modelling**' course at the Nehru Science Centre, Mumbai. Currently a member of the aero-modelling and astronomy clubs of IIT Bombay.
- Undertook training in '**Tabla**' at IIT Bombay in the 1st year of Engineering.
- Actively participated in the '**Save Tiger**' Campaign.
- Was a member of the nature lover club of our school and attended the nature trails organised by it.