Ajay Bhatt **100040021**
Civil Engineering **UG Third Year (B.Tech.)**
Indian Institute of Technology, Bombay **Male**
Specialization: None **DOB: 17/06/1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.12
Intermediate/+2	CBSE	Subodh Public School	2009	73.20
Matriculation	RBSE	D.A.V. Sr. Secondary School	2007	76.00

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 1389** in IIT-JEE 2010 among **4.75 lakhs** candidates. [2010]
- Secured **All India Rank 3638** in AIEEE 2010 among **11 lakhs** candidates. [2010]
- Awarded **Student of the Year** from **Times of India** in class 10^{th}**.** [2007]
- Awarded a **Bronze** Medal in **Speed Math Contest** by Personality Plus club. [2004]

PROJECT UNDERTAKEN

Numerical Simulation and Experimental Validation of Cooling Water Pump [Dec'11-2012]
Sump for Indira Gandhi Super Thermal Power Project, Jhajjar **Guided by Prof. Eldho T.I.**

- Designed a scaled (1:12) CFD (Computational Fluid Dynamics) model of cooling water pump sump using ANSYS DesignModeler
- Simulated it using **ANSYS FLUENT** (CFD Solver) and visualized the streamlines pattern and vortices which are responsible for vibrations, cavitation and impeller damage to pumps
- Optimized Anti-Vortex Device design to reduce vortex formation, thus provided a quick, low cost solution
- Presented Poster on the project in **UG Research Symposium 2012**

C++ Course Project **[**Sept'10-Oct'10]
"Tetris Game" **Guided by Prof. Deepak B. Pathak**

- Headed the group of 4 members to write algorithms in C++ for calculating score, move down-left-right and rotate the set of blocks of 6 different shapes using keyword. Created GUI using **Ez-Windows**.

INTERNSHIP

Ambuja Cement LTD. , Mumbai

[May'12-July'12]

- Worked on project on concrete mechanization. Used numerical analysis to calculate parameters affected during concrete pumping by making a computational model and run simulation on it in **ANSYS** software
- Created a UI program in **Java** to calculate pumping pressure based on Nomograph which is used to calculate pumping pressure theoretically
- Completed workshop on "**Concrete and Material Testing**" organized by Founadtion of Ambuja Cement LTD.

Nthwall Entertainment Pvt. LTD. , Mumbai

[Dec'11]

- Integrated **fb-login** with website **nthwall.com** using fb-jsdk & saved their data to use for lucky draw
- Created site main login and added '**Tell your friend**' link in site to send requests to friends to visit the site and increase points

POSITION OF RESPONSIBILTY

Core Team Member, Web & Software, **Student Alumni Relations Cell (SARC)**

[April'12–Ongoing]

- Developed a interface for Alumni Student Mentorship (ASMP)'s mentor and mentee to see their details and are able to send each other mails over interface and directly.
- Included charts using **Google chart Api** and predicting time zone of various city using other Api in Phonathon Interface
- Revamped SARC Blog to look like main website
- Designed a flash movie for Orientation using **Adobe Flash**

Coordinator, Potentia, Techfest

[Dec'11-Jan'12]

- Coordinated with a team of 4 members to conduct and judge the Potentia event in which over 100 students participated from across India

RELEVANT COURSES UNDERTAKEN

- **Core Courses** : Engineering Mechanics, Solid Mechanics, Fluid Mechanics, Numerical Methods in Civil Engineering, Design of Structure, Structural Mechanics
- **Other Relevant Courses** : Computer Programming and Utilization, Economics, Data Analysis and Interpretation, Psychology

COMPUTER & PROGRAMMING SKILLS

- Operating System : Windows, Linux.
- Languages : C++, Java.
- Web Designing : PHP, HTML, CSS, MySQL, AJAX, jQuery, Javascript
- Software handled : Microsoft Office, Adobe Photoshop, Adobe Dreamweaver, Adobe Flash, ANSYS, MATLAB, SAP2000

EXTRA-CIRRICULAR AND OTHER ACHIEVEMENTS

- Developed two **Google Chrome extensions**, one for finding IP allocation of hostel and other showing mess menu for each week
- Worked with 4 members team in making remote controlling car using RF Circuit for the **Trackmania Competition**. [Aug'10]
- Worked with 5 members team in making of a Bot that was programmed using a Micro-controller board (Arduino board) for following black line on white surface for **Line Follower Competition** [Aug'10]