

Name: Vaibhav Kalra

Programme: Civil engineering – Btech

POSITION OF RESPONSIBILITY

General Secretary, Department of Civil Engineering, IIT-Bombay

April'11-Present

*[Elected by **600** students; currently leading a **3-tier 21 member** council to conceptualise and execute over 20 events with budget over INR .5Million]*

- Selected as member of the **Student Affair Council (SAC)** responsible for formulating policy reforms for over 10,000 students of IIT-Bombay, by the Committee of all Department General Secretaries headed by the GSAA
- Conducted department-wide extensive survey involving faculty & students to review course structure and content; suggested changes in the curriculum and addition of department Electives to bring about **Academic Reforms**
- Conscripted and executed training workshops for Civil Engineering Software's on monthly basis (4-times per sem)
- Planned and Conceptualised Industrial Lecture Series to provide professional exposure to students
- Initiated process for amending a formal **Department Constitution** congregating roles & duties of council members

Institute Student Mentor, IIT-Bombay

April'11-Present

- Selected by the Institute as a student Mentor based on balanced Academic Performance, Extra-Curricular, Inter-personal and Mentoring Skills (1 of 77 out of 324 applicants)
- Facilitated Student-faculty interaction and undertook responsibility of guiding **12 freshmen** to ensure their smooth transition into IIT Life; Counselling and motivated 2 students facing extreme difficulty in understanding English

Sports Secretary, Hostel -8, IIT-Bombay

July'09 – April'10

- Innovated, structured and single-handedly organised a **Intra-hostel Cricket League** involving auction for players
- Managed and Optimally utilised the hostel sports budget of **INR 50,000**
- Successfully led in improving Hostel's overall General Championship rank from last year; Position in Basketball

MARKETING EXPERIENCE

Marketing Manager, Aakaar 2011

September'10- March'11

[As the head of the Marketing team, successfully led a 2-tier team consisting of 20 student volunteers to Solicit Sponsorship worth INR .4million with a Y-O-Y increase of 200%]

- Revamped the marketing Strategy by adopting a **4-tier system** for Association – Title Sponsor , Co-Sponsor, Event Sponsor and Associate Partners
- Pioneered marketing through strategic collaboration with leading companies viz Aircel Ltd, Ramky Infrastructure Ltd, NCC Ltd and Chronic Logic (a US Based online gaming Portal) across sectors

Internee, Recharge 123

Dec'10

*[Recharge123.com is a start-up by an IIT-B senior student; Current turnover **3million/month** during testing phase]*

- Part of the team since the Inception; Developed the Business and Marketing Strategy
- Procured special deals with Cleartrip.com, Dominos, Rajdhani Restaurants, Gelato Ice-creams and India Today which played a key role in company's Business Expansion

INDUSTRIAL AND OVERSEAS UNIVERSITY EXPERIENCE

Leibniz Universität, Hannover, Germany

May'11 - July'11

Guide: Prof Udo Nackenhorst (Winner of Richard Von Mises Prize for Applied Mechanics)

- Programmed a Graphical User Interface (GUI)using Matlab and ANSYS for modelling of Micro-Cracks in Short Fibre Reinforced Ultra High Pressure Concrete
- Generated detailed Micromechanical finite element models of typical specimen and performed statistical analyses and sensitivity studies
- Assisted in large scale project involving the design and analysis of the performance of various types on concrete Reinforcements upon cracking

- Conducted over 60 Lab and Site tests on concrete and its components after thoroughly researching the principles of Concrete Mix Design based on IS: 10262-1999
- Engineered Design of High Strength Concrete (**M-100**) having 150% more strength than others
- Managed to alter to mixing procedure of Micro-Silica used in High Strength Performance Concrete to significantly increase the strength and successfully casted the cubes.

KEY ACADEMIC PROJECTS

Study on Trespassing over Railway tracks in Mumbai Suburban and remedial Measures Thereon (Course Seminar)

- Carried out extensive survey on **1051 trespassers** using a detailed questionnaire at Mumbai's Kanjurmarg and Vikhroli Railway stations to extract prominent causes of trespassing and related accidents
- Discussed the issue with **Director Projects**, Mumbai Rail Vikas Corporation Limited (MRVC)
- Suggested Innovative Remedies to Reduce the rate of trespassing and henceforth the high accident probability
- The group was Acknowledged with **standing ovation** by the Professor and students for the hard-work put in

SCHOLASTIC ACHIEVEMENTS & ACCOLADES

- Placed in the Merit List of **30 Students** all over India after clearing the first stage of Group Maths Olympiad (GMO) Conducted by the CBSE (2007)
- Recipient of the Prestigious **DAAD Scholarship** given by joint collaboration of Indian and German Governments given to only 145 students across the nation; **One of only 3** civil Engineering students from India (2011)
- **Semester Topper** in the 5th semester among 76 students with a Semester Performance Index of **9.9/10** (2010)
- Awarded CBSE Central State Scholarship'08, IITB-Heritage Fund Scholarship'09 and Merit Cum means scholarship'10 for academic and Extra Curricular Excellence
- Ranked 5th among 76 B-Tech Students and Pursuing Honours in Civil Engineering

KEY EXTRA CURRICULAR ACTIVITIES

Sports

- Captain of Gold Medal Winning team in Hostel-8 Cricket league of 8 teams and over 100 players. (2010)
- Highest Run Scorer for the Bronze Medal winning Hostel Cricket Team, becoming the first hostel-8 team to do so after a span of 15 years. (2011)
- Received **Hostel Special Mention** (12 out of 400) for Extra ordinary Contribution in Sports Achievements (2010)
- Winner of Intra-Department Table Tennis Championship for 3 consecutive years, involving more than 100 participants across all B-Tech, M-Tech and Phd Batches (2008-2010)
- Member of Silver Medal Winning Table Tennis and Squash teams of the Hostel

Others

- Winner in the annual Hindi Debating GC Competition of IIT-Bombay
- Secured **3rd position** in U-Turn at *Zephyr*, the largest Aerospace Technical Fest of India.
- Coordinator, Hospitality and Public Relations, Mood Indigo'09, the largest cultural festival of India
- Facilitated and successfully executed the accommodation of over 1000 female participants over a period of 4 days
- Coordinator, Food and Beverages, Techfest'10, the second largest Technical fest of Asia
- Managed Single Handed the Night Cafeteria with 15 vendors involving a total sale of INR .3million