



**Vaibhav Tamrakar**  
**Metallurgical Engineering & Material Science**  
**Indian Institute of Technology, Bombay**

**09011006**  
**UG Second Year**  
**Male**  
**DOB: 18/08/1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.44
Intermediate/+2	CBSE	D.A.V. Public School, Kota	2009	91.00
Matriculation	CBSE	Apeejay School, Saket, New Delhi	2007	92.00

## Positions of Responsibility

### Alumni Secretary, Hostel 6, IITB

- Organised **largest** ever hostel alumni reunion, silver jubilee year for '85 batch. **Raised significant funds** to improve infrastructure and living conditions in hostel.
- Raised money for **launch of Mess Worker Incentive Fund**, awarding INR 3000 per year of hostel service to those working for more than 25 years/retired, with pledge to award others next year
- Took **initiative and launched** Make Hostel My Home, to improve living conditions in hostels, by publicising present conditions, and forcing authorities to work, with incentive of a circulating trophy being awarded to most improved hostel
- Designing and Maintaining the alumni web content on institute/hostel website

### Co-ordinator, SARC, IITB (Student Alumni Research Cell)

- Part of online **research** team to re-contact lost souls (alumni) of institute
- Co-ordinated with **CNBC media** (IIT Bombay Student Representative), for the lecture series "Lectures on Leadership"
- Took part in **US Phonathon**, to build database of alumni across US
- Written articles and blogs for institute alumni events
- Publicised SARC in fresher hostels

### Core Team Member, Avanti Fellows, Mumbai

- Part of the 5 member Avanti Core Team (ACT, Mumbai)
- AVANTI is an NGO started by recent IITB Alumni, working to bridge the educational divide
- It works by picking up intelligent students from BMC schools, and providing them free mentorship and IIT JEE coaching.
- Collaboration with Akanksha (NGO) to identify these students, and IITians Pace to provide free coaching

## Technical Skills

- Programming Languages** : C++, Visual Basic, Flash
- Software Proficiency** : Primavera P6, Microsoft Project, Microsoft Office, Openoffice,
- Operating System** : Windows, Linux
- Typing** : Typing speed 70 words per minute

## Practical Training

### Larsen & Toubro Pvt Ltd, Engineering Constructions and Contracts Division (Mumbai)

Topic: Observing Technical/Managerial application in construction of Mumbai International Airport

- Worked as a learning trainee, analysing the construction procedures and management of the Chhatrapati Shivaji International Airport, Mumbai
- Used Primavera P6, and Microsoft Project, to explore the working mechanism of L&T in any civil construction project
- Familiarised with working of Safety, Quality, Project Planning and Project Control Department
- Explored construction of a 2-floor building using engineering maps, with respect to basic outlay

## Key Academic Projects

- **Department UG Project (Pursuing)**

Made Silly Putty, a class of Silicon Polymer, in Department Laboratory. It has certain unique properties : bounces like a ball, soft gel like semi-solid, can flow extremely stretchable, but breaks on a sudden blow

Researching on ways to make aerogel in laboratory

- **On-OFF Keying (OOK): Encoder-Decoder Devices**

Designed a circuit for sending/receiving short wireless and Morse codes, representing data as a carrier wave

- **UID (Unique Identification Database): Programming using C++**

Database creation for 1000+ students via a C++ program code, fingerprint input and storage (software provided), cross checking for counterfeit data and fingerprints, unique identification by thinning of lines and judgement by pattern reading of prints, application for keeping personal information, marks, attendance

## Extra Curricular Activities and Accolades

- **1<sup>st</sup> prize** in Junkyard Wars, Chaos, IIM Ahmedabad.
- **IIT Bombay student media representative** for PAN IIT Conclave 2010. Wrote articles and blogs for the entire event, covering politics, national development, global warming, education, etc.
- Part of **National Service Scheme (NSS, IIT Bombay)** – made rural visits where surveyed for problems faced (lack of education, living conditions, possible remedies), personality development programme, attended Navchetna Shivar (Yoga), collected clothes within the campus, from hostels and staff quarters, and donated to the underprivileged
- **State Runners-up** in Basket-ball tournament. Member of School Basketball team
- Performed in various dramatics events, at both hostel, and institute level

## Other Interests

- 1) **Language proficiency:** English, French, Hindi. Avid interest in Public Speaking and Networking.
- 2) **Literature** : reading novels and writing articles and blogs as a hobby

I love travelling to new places and exploring new things. I am also a regular trekker and participant in adventure sports.