



**Electrical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: Microelectronics**

**08D07025**  
**Dual Degree (B.Tech+M.Tech.)**  
**Male**  
**DOB:**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.16

### Leadership positions

**Overall Coordinator, Student Alumni Relations Cell, IITB** (*Elected through general elections*) July '11-March '12

- Envisioned and initiated annual '**Student Alumni Meet**' (**SAM**) of IITB facilitating much needed interaction through buddy talks, long term mentorship and idea sharing. It connected 1000 students with 100 alumni in first year itself.
- Strategized a fund raising campaign that brought in ₹ **2.65 Cr (50% increase yoy)**.
- Formulated a **comprehensive charter** to overhaul the hierarchy brining all the activities under one umbrella.
- Led a **3-tier** team of **11 core team members** and **100 volunteers** while, simultaneously, guiding 13 hostel alumni secretaries and 10 department alumni secretaries.

**Core team Member, Alumni Interactions, Student Alumni Relations Cell, IIT Bombay** July'10 – March '11

- Achieved **300% increase** in cell activity by organizing **15 events** at institute level.
- Forged MoU with Training Cell fetching **20 internships** for the student community though alumni channel.

**Technical Secretary, Hostel 7**

July '09 – March '10

- Worked diligently and lead to **saving of about 9%** of electricity bill compared to the previous year.
- Helped my hostel secure **1<sup>st</sup> position** in online treasure hunt and electronics GC.

### Internships and Exposure

**Kalpasar, Govt. of Gujarat** (*Estimated investment ₹30,000 Cr*)

July'12–Ongoing

- Youngest member** of GoG constituted committee estimating renewable energy potential of Kalpasar basin.
- Submitted a white paper evaluating financial profitability of various alternates based on **SPP, NPV** and **IRR** metrics.

**University of Alberta, Canada** (*project sponsored by SunCor Energy*)

May–July'11

- Collaborated with a team of 7 researchers to achieve a common goal of enhancing solar cell efficiency.
- Contributed significantly towards explaining the experimentally observed quenching rates by mathematically deriving a supporting theoretical model based on **non-radiative energy transfer** phenomenon.

**Techno-economic evaluation of the bagasse briquetting industry** (*CTARA, IIT Bombay*)

May–June'12

- Surveyed 120 rural entrepreneurs to build relevant statistics and identified an untapped synergy.
- Built a financial model of a bagasse briquetting plant and performed a cash-flow analysis that showed **40% increase** in the income of local stakeholders. Awaiting approval of funds by Govt. of India to set up a pilot project at Daund.

### Key Projects

**Micro-PreConcentrators (μPC) for Explosive Sensor** (*Master's Thesis*)

Jan'12–Ongoing

- Fabricated μPC that enhanced the sensitivity of the cantilever based explosive sensor by **3 orders of magnitude** (detecting levels as low as tens of ppb) for **DRDO**.
- Received grant from Council of Scientific and Industrial Research, **DST** to attend 'Sensor Hub 2012'.

**Pratham, IITB Student Satellite** (*Integration and Mechanisms Sub-system*)

Dec'08–June'10

- Co-authored paper: '**System engineering and integration of Pratham**'.
- Developed jettison detection and monopole deployment mechanisms.

### Awards and achievements

- Bagged **1<sup>st</sup> position** (team of two) in Industry defined problem national level challenge on '**sustainable energy growth for India**' organized by **Eaton**. 2012
- Awarded '**Scroll of honour**' from IITB alumni association. 2011
- Conferred '**Institute Technical Special Mention**' award. 2010
- Received **National top 1%** merit Certificate. Selected for Indian National Chemistry Olympiad. 2008
- Ranked 23<sup>rd</sup>** at national level in NSTSC examination. 2008

### Extra-curricular activities

- 2<sup>nd</sup> position** in Electronics General Championship (team event). 2011
- Represented IITB students at **2010 PanIIT Conclave** held at Delhi NCR. 2010
- 1<sup>st</sup> position** in productions category of **Performing Arts** festival. 2010
- NCC '**A**' certificate while bearing the rank of **Petty Officer** of my platoon. 2005