

## Scholastic Achievements

- Secured a position among **top 35 in India (National Top 0.08%)** to be awarded a gold medal for meritorious performance in the Indian National Chemistry Olympiad (INChO) [‘16]
- Qualified the Indian National Junior Science Olympiad, **1 among 47 in India (National Top 0.1%)** [‘13]
- Secured an **All India Rank 74 in the KVPY** fellowship exam for the SA stream [‘14]
- Awarded the **NTSE scholarship** by NCERT with an **AIR 225** among 5 lakh participants [‘12]
- Achieved **98.37 percentile** in JEE Advanced among 1.5 lakh participants [‘16]
- Attained an **All India Rank 681** in JEE Mains among 1.2 million participants [‘16]
- Secured a position **among top 17 Indian students** to be conferred the Merit Certificate for Class excellence by the **Royal Australian Chemical Institute** in Australian National Chemistry Quiz [‘13]
- Pursuing a course on Analog Circuits as a part of **Minor Degree** in **Electrical Engineering**

## Positions of Responsibility

### Coordinator | Media & Public Relations | Student Alumni Relations Cell (SARC)

[Since Mar’17] —

*The lead body meliorating Student-Alumni relations and plying the rich Alumni experience*

- Working in a 5-member team that controls public image of SARC and handles event & initiative publicities
- Coordinating with the Dean ACR Office to develop the critical content of 10+ articles in Knowledge Tree, the monthly newsletter with a global outreach to **more than 40,000 IITB Alumni**
- Actively organised and participated in three Phonathon events, successfully **contacting over 100 Alumni**
- Key Initiatives:-
  - Conducted and led a **frank interview with the VP and Head of Supply Chain at Godrej Consumer Products Ltd**, Mr Saurabh Jhavar, an IITB Alumnus
  - Handled the **Mumbai and Madras zone communication** with the Alumni and Students on the day of Student Alumni Meet of 2017
  - Envisaged and substantiated the thriving revival of the **SARC Blog**

### Convenor | HAM Radio Club

[Since Sept’17] —

*Blurring the line between amateur radio hobbyists and professional radio operators*

- Operating as a 5-member team that works towards amplifying the awareness of HAM Radio and improving the systems and device communications
- Organized the first ever **HAM Radio license examination** for the IIT Bombay and Sameer students
- Key Initiative:-
  - Spearheading the gestation of HAM Radio Club’s **first Reading Group**, a platform that will promote group discussions, healthy debates, related hobby and pet projects and professional talks

## Technical Skills

Computer Languages	C, C++, HTML, Python, MATLAB, Octave
Software	AutoCAD, SolidWorks, Origin, Microsoft Office

## Key Projects Undertaken

### Piezoelectric & Piezoresistive sensor application study | Course Group Project

[Mar'17]

Guide: Prof. Dipti Gupta, Metallurgical Engineering and Material Science Department, IIT Bombay

- Canvassed the concepts of Piezoelectricity and understood the practical applications of Piezoelectric and Piezoresistive materials in electronic devices like transducers, actuators, pressure sensors and sonar
- Considered different studies undertaken across the globe, dissected and analysed them and finally, presented the appropriately drawn inferences in class

### Efficiency Improvement of Perovskite Solar cells | Project

[Sept'17-Present]

Guide: Prof. Aswani Yella, Metallurgical Engineering and Material Science Department, IIT Bombay

- Analysing the behaviour of Perovskite Solar Cells under humid atmosphere and attempting to improve the output power efficiency of  $\text{CH}_3\text{NH}_3\text{PbI}_3$  Solar Cell
- Using molecularly engineered porphyrin sensitizers to improve efficiency of dye-sensitized solar cells

## Undertaken Courses

Core Courses	Materials and Technology, Structure of Materials, Thermodynamics of Materials, Experimental and Measurement Laboratory
Math Courses	Calculus, Linear Algebra, Differential Equations, Data Analysis and Interpretation
Other Courses	Computer Programming and Utilization, Quantum Physics, Basics of Electricity and Magnetism, Organic, Inorganic & Physical Chemistry, Biology, Engineering Graphics & Drawing, Workshop Practice, Introduction to Electrical & Electronics Circuits, Economics

\*Not Competed yet.

## Extracurricular Activities

- Qualified the first round of Indian National Chemistry Olympiad (**National Top 1%**) in class 10
- Bagged **3<sup>rd</sup> place** in the **Bazinga!** Physics Competition in freshmen year
- Devised a Bluetooth Controlled Car for XLR8 and a Xyloband guided by ERC in freshman year
- Completed a yearlong course on keyboard under **National Sports Organisation (NSO)** Culturals, IIT Bombay
- Attended these camps:
  - Orientation-Cum-Selection Camp for **International Junior Science Olympiad** in 2013
  - **Nurturance Workshop on Scientific Inquiry** by IISER Pune and NCERT in 2013
  - **Vijyoshi National Science Camp** by the INSPIRE Program of Dept. of Science and Technology and IISER Kolkata in 2015
  - Orientation-Cum-Selection Camp for **International Chemistry Olympiad** in 2016
- Secured **2<sup>nd</sup> place** in **VIT IGNITE** examination of 2014 conducted by the VIT University
- Awarded exemplary achievement certificates by **Bayer** (3<sup>rd</sup> place, Making Science Make Sense, 2009-10), **Dell-Microsoft** (Study Buddy), **Axiom Education** (Iken Scientifica'08)