SCHOLASTIC ACHIEVEMENTS

- Ranked amongst **Top 10** students in department, **out of 124** at end of first year
- Secured AIR 1243 in IIT-JEE Advanced Examination 2014 out of 13.56 lakh students.
- > Secured All India Rank 4 in ICSE Board Examination 2012
- Nominated for INSPIRE scholarship for merit (top 1% of 17 lakh students) in HSC (+2 Examination)
- Ranked amongst **Top 1%** in state in National Standard Examination in Physics- NSEP 2012-2013
- > Secured International Rank 17 in 3rd International Mathematics Olympiad conducted by S.O.F
- Pursuing Minor in Computer Science Engineering

POSITION OF RESPONSIBILITES

Coordinator, Mood Indigo 2015, IIT Bombay

[Apr 2015 – Jan 2016]

Mood Indigo is IIT Bombay's annual cultural festival. It is also Asia's largest cultural festival.

- Coordinator in Marketing portfolios of Mood Indigo 2015
- Pursued the marketing budget required for Mood Indigo 2015 through corporate sponsorship
- Conceptualized and executed brand integration strategies having Indian youth as the target group for global and national corporations

R&D Team Member, Biosynth Project

[Jun 2015 - Present]

Biosynth is a first-of-its-kind project in any college in India, producing sustainable bio-diesel on campus.

- Synthesized bio-diesel in lab using 3 different oils: sunflower oil, waste vegetable oil (WVO) from McDonalds & mess oil from hostel canteens, building up on a new protocol of water-wash
- Devised and successfully implemented a procedure for glycerol and methanol recovery restoring an average 42.01 % of unwanted residue of transesterification as methanol
- Developed DOE using Taguchi method varying catalyst percentage, reaction temperature & ratios for most optimal design achieving 75% time reduction for WVO trans-esterification

Marketing Organiser, Mood Indigo 2014, IIT Bombay

[Sep 2014 – Dec 2014]

Mood Indigo is IIT Bombay's annual cultural festival. It is also Asia's largest cultural festival.

- Gathered lead sponsors & was on management team for flagship fashion show 'The Vogue'
- Worked towards successful integrations of sponsors like Sony Mix, Myntra.com and Opera Browser with the crowd during the festival period

Ozone Organiser, Techfest 2015, IIT Bombay

[Oct 2014 - Jan 2015]

Techfest is IIT Bombay's annual technical festival. It is also Asia's largest technical festival.

- Involved in ideation, planning and executing of the **Aviator Challenge** of Techfest 2015, which is a nationwide spread RC monoplane competition
- Successful execution with over 60 college team finalists participating under required guidelines

Panellist, Insight, IIT Bombay

[Aug 2015 - Present]

Insight is the institute's media body.

- Working as a panellist for the Sep-Oct newsletter edition of the institute
- Working on the article of IIT-B Security involving groundwork and surveying

PROJECTS

> Boundary Integral Simulation of vesicular dynamics in external fluid flow

[Dec 2015 – Present]

Guide: Prof.-Rochish Thaokar, Department of Chemical Engineering, IIT Bombay

- Carried out a comprehensive literature survey on 3D Boundary Integral Method (B.I.M) and other
 algorithms for solving dynamics of capsules and vesicles in general external flow
- Performed 3D surface discretization by element subdivision refinement scheme, advancing front method and Delaunay triangulation for numerical computation via B.I.M
- Created discretized surface on an elliptic 3D shape in FORTRAN 77 and currently working on determination of mean curvature, Gaussian curvature of a Beltrami surface

> C++ Course Project : Chain Reaction

[July 2014 - Nov 2014]

Guide: Prof:-Supratik Chakroborty, Department of Computer Science and Engineering, IIT Bombay

- Developed a multi-player game known as Chain Reaction for C++ course project
- Included graphics and transition animations using Simple Direct-media Layer package
- Devised and implemented an artificial intelligence strategy for one-player mode

TECHNICAL SKILLS

OPERATING SYSTEMS	Windows , Linux
PROGRAMMING LANGAUGES	C++, SDL, Java, MATLAB, HTML5, CSS, JavaScript, FORTRAN, Wolfram Programming, Logo, Basics of XML, jQuery, R-Programming
SOFTWARES	Microsoft Office, AUTOCAD , LaTeX , Mathcad
IDEs	Code::Blocks, BlueJ, Eclipse, Android Studio

EXTRA-CURRICULARS

> SPORTS:

- Silver medal winner in the Institute Football League cup for finishing as runners-up
- Represented hostel in the annual Football General Championships
- Part of IIT B football team under National Sports Organisation
- Represented school at district level for two years at the DSO Football Tournament

> LITERARY SKILLS:

- Reached International Level (Level 5) in the MaRRs Spelling Bee 2008
- Represented hostel in Literary Arts General Championships
- Winner at Inter School Mumbai Elocution Championship 2007 conducted by CROMA
- Winner at debate and extempore at the annual literature events during school

> TECHNICAL:

- Made a remote-controlled monoplane for the Aeromodelling club's RC Plane competition and finished in the Top 10 teams in the whole batch
- Successfully made a remote-controlled car for the Robotics Club's flagship event: XLR8
- Received the maximum grade of A+ in the National Graphics Championship 2010

> SOCIAL:

- Was student writer for examination of students with special needs for National Open school
- Involved in a campaign in the school locality which included spreading awareness through a street play and a cleanliness drive