SCHOLASTIC ACHIEVEMENTS

- Achieved **All India Rank of 77** in **JEE Mains 2017** among **1.2 million candidates**
- Secured **All India Rank of 108** in **JEE Advanced 2017** among **2,20,000 students**
- **All India Mathematics topper** in both JEE Mains and Advanced securing full marks in both
- Awarded scholarship under **National Talent Search Examination (NTSE)**, organized by the Government of India
- Cleared first stage of **NSEP 2016-17**, National Standard Examination in Physics, conducted by IAPT, Indian Association of Physics Teachers, with **All India Rank 12**
- Awarded **Certificate of Merit** for being among the **top 1%** in India in the National Standard Examination in Chemistry(**NSEC**) and National Standard Examination in Physics(**NSEP**)
- Awarded the **KVPY fellowship** (Kishore Viagyanik Protsahan Yojna), conducted by Government of India, twice with a **rank of 73** in class 12 and a **rank of 619** in class 11 among 0.1 million candidates
- Among the **top 1%** in my state in the National Standard Examination in Astronomy(**NSEA**)
- Awarded **AP** grade, awarded to only **top 1% students**, in Engineering Drawing
- Pursuing a **Minor** degree in **Computer Science & Engineering** and **Honors** degree in **Electrical Engineering**
- Attended **Vijyoshi Camp**, which serves as a forum for interactions between bright young students and leading researchers in fields of Science and Mathematics

TECHNICAL PROJECTS

Grab Circuit using Digital Logic (Spring 2017)
Guide - Prof. Mahesh B. Patil *IIT Bombay*

- Designed and constructed a grab circuit used in buzzer rounds of quizzes, using digital circuit components
- Each **grab circuit** was designed using NE 555 timers and a voltage divider arrangement. Also mechanism to disable other buttons after a button has been pressed was implemented
- The **timer circuit** was implemented using NE 555 as astable multivibrator which drove a decade counter constructed using two counters CD4026
- The interface between the grab circuit and timer circuit was constructed using a interface consisted of several gates and a D flip-flop

Hand Gesture Controlled 3-D hologram (Summer 2018)
Institute Techincal Summer Project(ITSP) *IIT Bombay*

- Models were designed in **Unity** and basic operations like rotation, scaling and changing to other models were incorporated
- A **self-designed IR sensor board** was constructed to record the input in the form of hand gestures
- An **Arduino MEGA** was used to provide the interface between the Unity game and IR sensor board and the final output was presented in form of a 3D hologram

INTERESTS

Semiconductor Physics, Digital circuits, Network Theory, Machine Learning, Deep Learning, Game and App Development

POSITION OF RESPONSIBILITY

Organiser: Mood Indigo 2017 (Sept'17-Dec'17)

- Mood Indigo is Asia's largest college cultural festival with participants from all over the world
- Entrusted with the task of being part of the **Disaster Management Team**, whose responsibility was to make sure that all events went smoothly and to take care of any last minute changes

TECHNICAL SKILLS & INTERESTS

Advanced Proficiency	MATLAB/Octave, C++ , AUTOCAD, LaTeX, Arduino
Intermediate Proficiency	Python, Unity Scripts(C sharp), SolidWorks, GNU Plot, Xcircuit, NGSpice

RELEVANT COURSES

Electrical Engineering	Introduction to Electrical Systems, Introduction to Electronics, Network Theory*, Electronic Devices and Circuits*, A First Course in Optimization
Mathematics and Statistics	Data Analysis and Interpretation*, Calculus, Linear Algebra, Differential Equations(I and II*), Complex Analysis*
CSE	Data Structures and Algorithms*, Computer Programming and Utilization
Miscellaneous	Economics*, Electricity and Magnetism, Quantum Physics and Applications, Engineering Drawing, Chemistry, Biology

*to be completed by Nov'-18

EXTRA CURRICULAR ACTIVITIES

- Completed a two-semester course in **Table Tennis** conducted by National Sports Organization (NSO)
- Member of Hostel-2 team for **Inter-Hostel Football General Championship** (2017 - Present)
- Participated in XLR8 competition conducted by Electronics and Robotics Club, IIT Bombay
- Participated in Line Follower and Maze Runner Bot making competition organized by Electronics and Robotics Club, IIT Bombay
- Passed elementary and intermediate grade drawing examination conducted by Government of Maharashtra
- Participated and was finalist in the intra-hostel Table Tennis competition
- Directed and shot a video in the film making competition in my freshmen year