ACADEMIC ACHIEVEMENTS :-

- ➢ Pursuing major in aerospace engg and minor in electrical engg at IIT-Bombay.
- ➢ Selected into IIT through All India Rank (AIR) 1212 from amongst 560,000 aspirants.
- ➢ Receiving Merit Cum means Scholarship(INR 60k per year) from IIT Bombay.
- ➢ Ranked in the top 0.3% in the county in AIEEE 2012 from amongst 1.3 million aspirants.
- ➢ Got selected for admission into IIST through ISAT-2012.

POSITION OF RESPONSIBILITY :-

1. **Coordinator at Mood Indigo, IIT Bombay**   (May 2013 - Dec2013)
- ➢ Worked as a Coordinator in Mood Indigo under Hospitality and Public Relations department.
- ➢ Mood Indigo is the largest college cultural festival in India with a budget exceeding INR 15
million and a footfall of over 80,000 students from over 700 colleges from across the country.
- ➢ Leading a team of over 15 organizers.

2. **Tech mentor** (July 2013-Ongoing)
- ➢ Mentored First year undergraduates for xlr8 competition held in the institute.
- ➢ Assisted them in making remote controlled car & solidworks model of it.
- ➢ 2 of my 4 teams are in top 10 teams among 100+ participating teams.

3. **Organizer at tech fest, IIT Bombay** (Jan 2013)
- ➢ Worked as a organizer for techfest-2013, IIT Bombay.

TECHNICAL PROJECTS :-

1. Mars Society India - University Rover Challenge team   (November 2012 - Ongoing)
*(MSI is IITB student initiative to promote space research in India. Under which our primary task is
to crack URC mars society which is to build a rover according to mars conditions and compete
among international teams to do prescribed tasks.)*
Guide: Prof. P J Guru Prasad.
- ➢ Permanent Member of MSI team.
- ➢ Inspected rocker-bogie mechanism, its flaws and its advantages.
- ➢ Built mechanical model of our first prototype with rocker-bogie mechanism.
- ➢ Demonstrated effectiveness of yagi antennas.
- ➢ Made more efficient motor driver using mosfets.

2. Hover-on (Tech Fest 2014)   (Dec2013 - Jan2014)
we have made a hovercraft - linefollower of size 40X40 cms to participate in a competition 'Hover-on' in
Tech Fest 2014.
- ➢ 2 propellers a the back to give forward motion.
- ➢ Used differential mechanism for steering.
- ➢ Infra-red sensors for detecting line
- ➢ Arduino microcontroller.

3. Obstacle Avoiding Robot (institute technical summer project)   (May 2013 - July2013)
(designed and developed an obstacle avoider using 2 sonar sensors mounted an servo motors

such that each will rotate 90° so that even inclined surfaces can be detected)
➢ Programmed in arduino microcontroller.
➢ Displayed at institute technical gatherings and Institute Tech-Exhibition involving an audience of 2000.

TECHNICAL ACTIVITIES :-
➢ **Hydronoid:-** made a crane which operates only on hydraulics.
➢ **RC Plane:-** made a plane using coroplast, Styrofoam and 3 servo motors.
➢ **Line Follower Bot:-** made a line following bot with 3 IR sensors and arduino.
➢ **RC Car:-** made a remote controlled car with wireless RF and l293d motor driver.

TECHNICAL SKILLS :-
Mechanical –
Structural Designing, Metalworking, Machining, Lathe, Welding, Wood Working.
Electrical –
PCB Designing, microcontroller (Arduino).
Software –
C++, SolidWorks, Autocad, Html, photoshop, MS office.

Extra-Curricular Activities :-
➢ Completed National Cadet Corps (NCC) "B" certificate training.
➢ solving rubik's cube within 3 mins.
➢ Won school level chess championship in 2010.

Academics and key courses :-

1. **Computer programming and utilization project :-**
➢ Developed a word searcher program in C++ that can search a word in given text file or compare 2 text files.
➢ Developed a RacingMoto game in scratch compiler.

2. **Space Flight Navigation and Guidance :-**
➢ A course under prof hari hablani.
➢ Inertial navigation, radio based navigation systems and GPS
➢ LOS guidance and Beam rider guidance

3. Flight mechanics :-
➢ Knowledge of flow of aircraft and its performance.
➢ Knowledge components and controls of aircraft.

4. **Key courses :-**
➢ Solid mechanics, fluid mechanics, engineering design, thermodynamics, engineering drawing, measurements lab, economics, data analysis and interpretation, instrumentation lab.

Talent Tests :-

➢ Got credit in mathematics at international Assessments For Indian Schools by The University Of New South Wales in 2007.
➢ Got very good conduct with a state wide 928 rank in state level science talent search exam, SLSTSE(A.P)-2008.