



A Kushvanth Reddy
Aerospace Engineering
Indian Institute of Technology Bombay
Specialization: Aerospace Engineering

120010056
UG Second Year
Male
DOB: 27Sep, 1995

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	5.79

ACADAMIC ACHIEVEMENTS

- Receiving **Merit Cum means Scholarship** (INR 60k per year) from IIT Bombay.
- Got **South India 1st in Vedic Mathematics Talent Test by AMTI Chennai**.
- Selected into IIT through AIR 1229 in first attempt from amongst 0.6 million aspirants.

KEY TECHNICAL PROJECTS

Mars Society of India, IIT Bombay

Designing and developing an all-terrain rover, which performs multiple tasks in an unknown arena and conducts physical, chemical and biological experiments on the soil.

- Designing rover for international competition **University Rover Challenge (URC) 2014**.
- Team head of **Bio-sciences sub-system, MSI-IITB team** which deals with chemical and biological experiments to be conducted by rover on soil of arena.
- Designing new techniques to detect **extremophiles** qualitatively and quantitatively in soil.
- Improving the present techniques to explore the extent of cyanobacteria in soil, mainly **Denaturing Gradient Gel Electrophoresis (DGGE)** for the restricted time constraints in **URC**.

Pratham – IITBombay Student Satellite

Designing and developing 'Pratham' first student satellite Indian Institute of Technology Bombay. And launching it with the help of ISRO.

- Deigned base station and control box for Pratham satellite.
- Simulated on-board antennas in **Antenna Magus** software.

Self-Obstacle Avoider

- Used ultra-sonic sensors and arduino Uno to make the bot.

POSITION OF RESPONSIBILITIES

- Joint secretary, Mars Society of India, IITBombay.
- Marketing coordinator, Zephyr 2014.
- Coordinator, Food and Beverages department, Mood Indigo 2013.
- Commander of NCC 'A' certificate cadets 2010 238 Andhra Battalion, Jawahar Navodaya Vidyalaya, Chittoor (dist.) Andhra Pradesh.

SKILLS

- Mechanical**- Structural Designing, Metalworking, Machining, Lathe, Welding.
- Electrical**- PCB designing, Microcontrollers (Arduino).
- Software**-C++, AutoCAD, Matlab.