Bhavaraju Amrutha
Aerospace Engineering
Indian Institute of Technology, Bombay

100010046
UG Second Year
Female
DOB: 17/01/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	6.16
Intermediate/+2	Narayana junior college	2010	92.20	Matriculation

SCHOLASTIC ACHIEVEMENTS

• Secured **All India rank** of **1057** in **IIT-JEE** among 4, 95,000 students**.** (2010)
• Stood **first** in preliminary exam of **National Mathematics Olympiad**
conducted by **AIMTA** twice. (2006, 07)
• Stood **9th** in **state level** in **Aaryabhatta Educational Award** by Masterminds
Foundation. (2005)
• Got **excellent grade** in **state level science talent search examination.** (2005)
• **Got Best student award** in school. (2007)
• Stood **second** in **district level science exhibition** among 100 entries showing
hydroelectric power generation. (2004)

COURSES TAKEN

1. **Supervised learning** on design studies of **Lenticular shaped LTA systems** under the
guidance of Prof. Pant.
• Studying the paper on **OSIRCA** (Oblate Spheroid Indoor remotely Controlled Airship)
2. **Core Theory Courses**: Fluid mechanics, Thermodynamics, Structural mechanics, Space flight navigation and guidance,
Introduction to Aerospace Engineering, Solid Mechanics, Engineering Design.
3. **Non-Core Courses**: Numerical analysis, Calculus, Differential Equations, Linear Algebra, Electricity and
magnetism, Chemistry, Computer Programming, Economics, Data Analysis and
Interpretation, Introduction to Electrical Engineering
4. **Lab Courses**: Modelling and simulation laboratory, Engineering Drawing, Mechanical Workshop Practice, Aerospace
measurement laboratory, Experiment and measurement laboratory.

PROJECT EXPERIENCES

1. **Design Course Project** *(Course Project for AE 207)* (present)
Guide: Prof.P.M.Mujumdar, Prof.H.Arya, Prof.K.Sudhakar
Project involved applying various Engineering Design techniques to solve open-ended
problems
2. **Programming Project in C**++ *(Course Project for CS 101)*
Guide: Prof.Rushikesh Joshi
Made a computer game, named UNO, using C++ programming language and fast light tool
kit.
3. Working on designs of **Ornithopter** as a part of **technovation** projects.

TECHNICAL EXPERIENCES

• Mada a bot that can be solely controlled by wrist movement.
•   Made **a remote controlled bot** for **Track mania competition** in the first year at IIT Bombay.
• Stood **fifth** in **water rocketry competition**(water to be used as propellant) of **ZEPHYR,**
Department festival of Aerospace Engineering Department
• Designed a computer game, **UNO** using c++ language and **flash light tool kit** being in a team
of 2 (course project for CS 101).
• **Computer knowledge**:
Programming Languages: **c++**
Software skills: Photoshop, basics of Matlab and Solidworks.
OS: Windows, LINUX

POSITIONS OF RESPONSIBILITY

- **Coordinator** of **Aeromodelling club**, IIT Bombay. (current)
- **Coordinator** of **TechFest-2012**, Technology Festival of IIT Bombay.
- **Organiser** of **ZEPHYR**, Department festival of Aerospace
Engineering Department. (2011)

EXTRA CURRICULAR ACTIVITIES

- Play **Carnatic and western violin.**
- Learnt **Kuchipudi** (classical dance of Andhra) for 1 year.

SOCIAL SERVICES

- Volunteered to mentor a girl child as a part of **Teach for India** program.
- Active part of **HelpAge India**
- Visited underdeveloped villages like Tara as a part of **NSS team, IIT Bombay**.
- Volunteered to teach 15 poor children Maths, Science and English for three years.