

Sunil Kumar Aerospace Engineering Indian Institute of Technology, Bombay

09D01015

UG Third Year(Dual Degree)

Male

DOB: 07-08-1992

| Examination | University | Institute | Year | CPI / % |
|-----------------|------------|------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2011 | 9.00 |
| Intermediate/+2 | CBSE | KV,Sikar | 2008 | 79.00 |
| Matriculation | RBSE | DPS,Sikar | 2006 | 83.00 |

SCHOLASTIC ACHEIVEMENTS

- Selected among the top 1% of the 0.4 million students appeared for IIT-JEE 2009 exam.
- Selected among the top 1% of the 1 million students appeared for the AIEEE 2009 exam

ACADEMIC PROJECTS

Modeling and Simulation Lab Project

(Spring2011)

Short report on non-linear partial differential equation based automobile suspension System.

Design of mobile thermal comfort for people

(Autumn2010)

Guide: Prof. Hemendra Arya, Prof. P M Mujumdar, Prof. Krishna Rao Sudhakar

- Analyzed basic requirements of stakeholders, Product
- Designed suit providing mobile thermal comfort for people living in hot and humid places.

Mini UID Project for IIT Campus

(Autumn2009)

Guide: Prof. Deepak B Phatak

- Developed C++ codes for the development of the fingerprint identification system
- System was used in recording attendance, access control, conducting online exams
- Enhanced the technique by generating a database with **uniquely assigned fingerprint** identifications

KEY ACADEMIC COURSES

Core Courses: Introduction to Aerospace Engineering, Solid Mechanics, Aerospace structural mechanics, Aircraft Structures Laboratory, Thermodynamics, Propulsion, Control Theory, Control Systems Laboratory, Modeling and Simulation Lab

Non-Core Courses : Computer Programming and Utilization, Overview of Macro and Micro Economics, Data Analysis and Interpretation, Modern Physics

POSITIONS OF RESPONSIBILITY

Photography and Fine arts Secretary, Hostel-5

[Julv10-Apr'11]

- Elected by 300 hostel members to represent the hostel in matters pertaining to Photography and fine Arts
- Was responsible for Fine arts work in Preforming Arts Festival(PAF) came **1**st in fine arts category and 3rd overall ,Awarded Hostel PAF color for exceptional contribution in PAF
- Successfully conducted various intra **hostel competitions and workshops** like hostel T-shirt making competition, hostel Flag making competition and Basic Photoshop workshop

Coordinator, Techfest, Events

[Aug10-Mar'11]

- Lead to a team of **20 students** for the competition 'Aviator'
- Increased number of registration by 100% in comparison to previous year by introducing new and innovative ways for publicity
- Initiated a path breaking change in the event by introducing "Air Show" by professionals during the event and hence increasing number of spectators by 3 times.

COMPUTER SKILLS

- **Programming languages:** C , C++ , Python , Fortran
- Soft wares: MATLAB, latex, Scilab, Mathematica, Powet Point, Word
- **Operating System:** windows7,XP,Linux

EXTRA-CURRICULAR ACTIVITIES

Photography and fine Arts

- Represented hostel in Various institute general championships (GCs) like 3-D modeling, Photography, Cartoon making etc.
- Active member of Pixel-Photography club, Rang-Fine arts club of institute

Adventure Activities

- Completed 'Basic Mountaineering Course' which includes rock climbing, Ice crafting, Snow crafting, gaining 15,000 ft. of height etc with "A" grade.
- Completed B level Training in National Cadets Corps(NCC), Lead to the group of 50 inmates

Technical Activities

Wireless Remote controlled car

(August 2009)

Guide: Technic Club IIT Bombay

• Designed a wireless car which had to pass through certain obstacles and complete a path in minimum time and secured **8th position out of 100** teams in the freshmen year

Remote controlled plane

(Mar'10)

Guide: Prof. Krishna Rao Sudhakar

- Designed and operated an RC plane using **balsa wood** with **rudder** and **aileron** controls.
- Studied the basic concepts of lift, drag and moment

Chuck glider and Boomerang

(Feb'10)

Guide: Prof. Krishna Rao Sudhakar

- Designed and modeled **balsa wood chuck glider** and a **paper plane** (**Flying Time:12 seconds**)
- Participated in the **boomerang** making competition