

Sumit Kumar Yadav Mechanical Engineering Indian Institute of Technology, Bombay 09010034

UG Third Year (B.Tech.)

Male

DOB: 29 June 1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.35
Intermediate/+2	CBSE	The Army Public School, Pune	2009	87.40
Matriculation	CBSE	The Army Public School, Pune	2007	95.00

SCHOLASTIC ACHIEVEMENTS

- Secured an All India Rank of 1259 in Joint Entrance Examination (IIT-JEE) (top 0.5%)
- Secured an All India Rank of **1288** in All India Engineering Entrance Examination (top 0.2%)
- Secured an All India Rank of **63** in **National Cyber Olympiad** conducted by **Science Olympiad Foundation** in the year 2006 & **topped the school** in the same for 2 consecutive years
- Awarded Certificate of Merit in AISSE 2007 by CBSE for being in top 0.1% in Mathematics & Hindi

TECHNICAL PROJECTS

• MINI UNIQUE IDENTIFICATION

[Oct-Nov 2009]

(Guide: Professor D.B. Phatak, Computer Programming and Utilization)

- Developed a program to detect and identify fingerprints of campus inmates
- Developed a code for application of this project in taking attendance (*Team of 5*)

• MATERIAL SELECTION AND DESIGN FOR ICE-AXE

[Oct – Nov 2010]

(Guide: Professor G.V. Prabhugaonkar, Engineering Metallurgy)

- Collected extensive data about the competent materials
- Analysed various factors involved such as cost, strength, variation of properties with temperature, safety, etc. Made a mathematical model giving weightage to these properties for coming to conclusion (*Team of 2*)

• PERFORMANCE CHARACTERISTICS OF IC ENGINE

[Dec 2010]

(Guide: Professor Sreedhara Sheshadri)

- Analyzed performance characteristics of four stroke gasoline spark ignition engines
- Calculated performance and heat release characteristics of Alto engine (*Team of 3*)

MID-AIR HUMAN DOCKING AIRCRAFT

[Aug 2011-Present]

(Guide: Professor Rajkumar S. Pant, Aircraft Design)

- Presently working to design an aircraft capable of transporting humans mid-air from and to another flying aircraft
- Objective is to consider all possible factors like constraint analysis, refined sizing, drag and lift coefficients, operational and environmental issues in designing (*Team of 7*)

COMPUTER AND PROGRAMMING SKILLS

- Programming Skills: C++, HTML
- Other Softwares: MS Office, Adobe Photoshop, Solid Works

POSITION OF RESPONSIBILITY

> NSS Activity Associate

[2010-11]

- Helped in organising field trips and smooth conduction of Personality Development Programme (PDP) Workshops
- Took classes for students (Standard XI) as part of Educational Outreach

Alumni Secretary, Hostel -8

[2010-11]

- Major Contribution in launch of HATS (Hostel Alumni Team Stewardship) which raised funds over Rs. 20 lakh for the hostel
- Organised the **First Hostel Alumni Reunion** which saw participation of over 35 alumni
- Prepared the initial content and regularly updated the Hostel HATS Website
- Participated in various Phonathon (US and India Chapter) to publicise HATS and Reunion

> Co-ordinator, Marketing Department, Entrepreneurship Cell

[Oct 2010 – Mar 2011]

- Worked in a team which was responsible for bringing sponsors like **Google, Dell, Essar** for our flagship event **E-Summit** with an overall sponsorship amount of Rs. 1.7 crore
- With the help of organisers, handled the last minute tasks for smooth-running of event
- ➤ **Group Leader** in **Basic Mountaineering Course** by ABVIMAS, Manali of the group which won the award of **Best-Group**

EXTRA CURRICULAR

SPORTS

- Completed Swimathon, 12-hour non-stop Swimming Challenge for 2 consecutive years covering a
 distance of 16 km and 18.2 km among very few from entire IIT including students, faculty and staff
- Successfully completed **26-day Basic Mountaineering Course** from Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports (**ABVIMAS**), Manali in July 2010
- Awarded National Cadet Corps (NCC)-'B' Certificate by the Government of India in 2009-2010.
- Represented and earned points for hostel in Main Crossy, Water-Polo and Swimming

CULTURAL

- Awarded **Hostel-8 Freshmen of the Year (2010)** for contribution in Prod and Fine Arts which won the award for Best Prod in Performing Arts Festival (PAF)
- Awarded PAF Special Mention (2011) in the winning PAF for contribution in Prod and Acting

TECHNICAL

- Led a team of 4 members in Institute Level Technical Event **Robocon**, designed and made a bot which successfully completed the given task
- Stood **first in** Inter-School **Su-Doku Competition** (2007)

HOBBIES AND MISCELLANEOUS

- Participated in YES!+ (Youth Empowerment and Skills) Workshop course conducted by the Art of Living Organisation. Also, volunteered for organizing several such courses
- Organized **drive against use of plastic bags** in entire IIT Campus in **10-day Annual Training Camp** (ATC) by NCC apart from learning various adventure sports and firing
- Avid interest in reading, music(synthesizer) & puzzle solving, can solve rubik's cube in 2 min