



Shreyans Kumat
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: None

11D100024
UG Second Year
Male
DOB: 15-01-1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	8.46
Intermediate/+2	CBSE	DAV Public School, Kota	2011	92.20
Matriculation	CBSE	Mayoor School, Ajmer	2009	94.20

SCHOLASTIC ACHIEVEMENTS

- Pursuing a **Minor in Computer Science and Engineering**
- Recipient of **Merit cum Means (MCM) Scholarship** given by IIT Bombay
- **IITJEE Rank: Secured All India Rank 474** (among 5,20,000) in JEE-2011
- **AIEEE Rank: Secured All India Rank 409** (among 1,250,000) in AIEEE-2011
- Secured **Rank 4th in Rajasthan Pre - Engineering Test (RPET) 2011**
- Selected for **Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship** in 2010
- Stood **29th in International Mathematics Olympiad (IMO)** organised by Science Olympiad Foundation (SOF)
- Awarded **Certificate of Merit** by Central Board of Secondary Education (CBSE) for being among top 0.1 % in subjects **Hindi and Science** in AISSE-2009 for class 10

POSITIONS OF RESPONSIBILITY

- Convener, IIT Bombay Broadcasting Channel (IITBBC)** *(Apr 2012- present)*
- Editor of the contents of the YouTube channel (<http://www.youtube.com/IITBBC>)
 - Edited 20+ videos of interactive sessions including prominent personalities like Kapil Sibal, Dhanraj Pillay etc.
 - First ever coverage of the Institute Elections to create awareness among student voters
- Hostel Secretary for Alumni Affairs** *(Aug 2012- present)*
- Fostering Relations with 500+ Hostel-5 Alumni and publicizing HATS (Hostel Alumni Team Stewardship) whose purpose is to help mess worker financially
 - Conducted Alumni Day 2012 and Mock Interview sessions by alumni in Hostel
 - Participated in various Student Alumni Relation Cell (SARC) events like Phonathon, Student Alumni Meet, Reunions; Awarded Volunteer of the Day
- Coordinator, Mood Indigo** *(Apr 2012- Dec 2012)*
- Conceptualized various ideas to publicise the festival within the campus and online
 - Planned and Executed various Dance events in the Competitions leg of the festival
 - Coordinated with a team of 20 organisers and 5 design volunteers preparing mascot, merchandise, The Big MI Wall and advertisements for the festival
- Coordinator, Entrepreneurship Cell** *(Apr 2012- present)*
- Involved in conceptualization of various events like Eureka and E-Summit and live execution of events under EnB Club
 - Currently leading a team of more than 10 organisers working on Food and Beverages, Marketing, Hospitality Partner etc.
 - Responsible for managing and looking after logistics and administrative affairs
- Coordinator, Rubik's Club** *(Apr 2012- present)*
- Recognized by the Guinness Book of World Records and Limca Book of World Records for 'Most people Solving Rubik's Cube (937) in 30 Minutes'
 - Conducted CubeMania at Techfest 2013 (WCA recognised event), Institute Cube Open and various workshops

PROFESSIONAL SKILLS

• Programming Languages and Software:

C/C++, HTML, MS Office, Adobe Photoshop, Sony Vegas, Adobe Premier Pro

• Operating Systems:

Windows, Linux(Ubuntu)

PROJECT AND INTERNSHIPS

Internship at Xylem Water Solutions India Pvt. Ltd.

(May 2012-June 2012)

- Worked on the Project "Analysis of Centrifugal Pump Performance"
- Developed a program in C++ for prediction of the flow in centrifugal pump for instantaneous value of head, which will be implemented in "Pump Smart"
- Predicted Error for specified section of the Pump Performance Curve for the better accuracy of the above Program

Institute Technical Summer Project

(May 2012-June 2012)

- Developed the conceptual design of a robot that can solve a Rubik's Cube under 2 minutes
- Implemented the fastest step algorithm into a mechanical design using servo motors
- Exhibited the Rubik Cube Solver in Institute Technical Exhibition 2012

AWARDS AND CERTIFICATES

- Attained '**B - Certificate**' under **National Cadet Corps (NCC)** as a Cadet in 2-Maharashtra Engineering Regiment NCC
- Awarded '**Best Design Prize**' for the 'Chappal Bot' made for the Line Follower event by Student Technical Activities Body (STAB) - IIT Bombay
- Hostel **Freshmen Special Mention** for contribution to Dance in **Performing Arts Festival (PAF)** 2012

EXTRA CURRICULAR ACTIVITIES

Technical Activities:

- **Line Follower** - Devised an Autonomous sensor controlled bot based on AVR Microcontroller to follow a white line on black surface
- **Tech One** - Designed a wireless remote controlled car capable of traversing obstacles like speed breakers, potholes and inclinations

Cultural Activities:

- Represented IITB at several **intercollegiate festivals** like Malhar, Umang and Mood Indigo
- Participated in Gyration, Annual Insync Dance Show and Performing Art Festival in 2012
- Won the Sophomore Dance League 2012 and was Runner Up in Freshmen Group Dance
- Stood second in Hindi Literary Art Competition at Malhar 2011

Social Activities:

- Guided and Coached around 125 children Dance and Creative Writing each in Summer Camp 2007 and 2008 held in Kishangarh town of Ajmer District

Sports Activities:

- Won the District Table Tennis Team Championship, Ajmer in 2009

RELEVANT COURSES

- **Mathematics Courses:** Numerical Analysis, Differential Equations, Linear Algebra, Calculus
- **Computer Courses :** Computer Networks, Data Structures and Algorithm
- **Other Courses:** Economics, Data Analysis and Interpretation, Philosophy of Sciences, Basic to Electrical and Electronics, Engineering Metallurgy, Introduction to Computer Sciences, Experimentation and Measurements Lab, Scientific Concepts in Sanskrit Texts