



**Kaustubh Singhal**  
**Mechanical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: Thermal & Fluids Engineering**

**08D10036**  
**UG Second Year**  
**Male**  
**DOB: 12 Aug 1990**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2009	8.73
Intermediate/+2	CBSE	Rajhans Vidyalaya, Mumbai	2008	86.70
Matriculation	CBSE	DAV Dayanand Vihar, Delhi	2006	92.40

## ACADEMIC ACHIEVEMENTS

- All India Rank 818<sup>th</sup> in IIT Joint Entrance Exam – 2008; a percentile of 99.997.
- Got an excellent Grade in an **Advanced C++ Course** conducted by Continued Education Programme-IITB.
- Topped in school in class 12<sup>th</sup> in economics with **93% (2008)**
- Received a certificate of commendation for meritorious performance in **Vaigyanika-2005**, which is a science based national exam conducted by **Science Education Centre**.
- Qualified the written examination of **Kishore Vaigyanik Protsahan Yojana** in 2007.
- All India Rank 141<sup>st</sup> in the **National Level Science Talent Search Examination** in 2003.

## PROJECTS

### Bullet-proof Glass

(Autumn 2009)

Under Prof. G.V.Prabhugaonkar

- Did intensive research on the properties required and the material used for making Bullet-Proof glass and suggested an alternative for the same.

### Multi-base calculator software

(Autumn 2008)

Under Prof. Abhiram Ranade

- Designed a calculator in C++ which can do computations in any positive base less than or equal to 36.
- It made a smart use of the continuous nature of ASCII codes and a variety of classes.

### 'BIG' Integer class

Under Prof. Supritam Biswas

(Summer 2009)

- Designed an algorithm for a new type 'BIG' which can store any sized positive integers.
- Overridden functions to do computation on 'BIG'.

## COMPUTER SKILLS

- Operating Systems: Windows, Linux
- Programming: C/C++, HTML
- Photoshop and Video editing
- MS Office
- Flash

## KEY COURSES UNDERTAKEN

### Department Courses (Mechanical Engineering)

- Solid Mechanics
- Thermodynamics
- Fluid Mechanics
- Engineering Metallurgy
- Manufacturing Process
- Strength of Materials
- Engineering Mechanics
- Engineering Graphics and Drawing

### Mathematics

- Data Analysis and Interpretation
- Linear Algebra
- Differential Equations
- Calculus

### Technical Courses

- Introduction to Computer Programming
- Digital Electronics
- Introduction to Electrical & Electronics Circuits

## EXTRA CURRICULAR ACTIVITIES

### Music

- **Topped in Mumbai** in the initial grade in piano from the **Trinity school of music**, London and have also cleared till grade two in theory of music.
- An active member of the music clubs of IITB.
- Played the Synthesizer with several bands in several music events in the institute (have performed in front of audiences greater than 5000).
- Did the opening performance in the institute cultural night of IITB and opened the event for Bollywood singers.
- 3rd in the inter-hostel music competition out of 28 teams.

### Others

- Successfully completed a **Basic Water Sports Camp** with an A grade.
- **Co-ordinator, Initiatives Department, Techfest 2010** (IIT Bombay's technological festival, Asia's largest): Handling an exhibition called TechConnect, which plays host to corporates from a multitude of industries to know about and absorb the research work of the faculty of IIT Bombay (Status: Ongoing)
- **Co-ordinator, Informals Department, Mood Indigo 2009** (IIT Bombay's cultural festival, Asia's largest): Handling a personality hunt competition.(Status: ongoing)
- Was a part of the organizing team of Mood Indigo 2008.
- An active participant in sports particularly Basketball, Football, Table Tennis, Lawn Tennis.
- Was a part of the fresher's basketball team in IITB.
- Involved in dramatics; was a part of the play which came first in a dramatics competition in IITB.