



**Abhay Mahajan**  
**Mechanical Engineering (UG Fourth Year)**  
**Dual Degree (CAD and Automation)**  
**Indian Institute of Technology, Bombay**

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Examination	University	Institute	Year	CPI/ %
Graduation	IIT Bombay	IIT Bombay	2011	6.88 (3 <sup>rd</sup> year)
Intermediate/+2	MPBSE	ABMHSS, Indore	2007	80.67%
Matriculation	MPBSE	SKBVN, Indore	2005	88%

#### SCHOLASTIC ACHIEVEMENTS

- Secured an **All India Rank 647 (top 0.2% of 3,20,000 students)** in prestigious IIT Joint Entrance Examination [2008]
- Was amongst **top 0.3% of 8,00,000 students** appeared for All India Engineering Entrance Examination[AIEEE] [2008]
- Secured **5<sup>th</sup> position** in Indore district in Matriculation Examination conducted by MPBSE. [2005]

#### POSITIONS OF RESPONSIBILITY

**MANAGER, HOSPITALITY, TECHFEST 2010-11** [March 2010 – March 2011]

( Asia's largest Science and Technology Festival with a footfall of 85,000 and a budget of INR 13.2million)

- Worked with a team of 22 managers to conceptualize and execute more than **90 events** entailing a participation of over **13,000 students**.
- Led** a 2 tier team of **100 volunteers** to make flawless hospitality arrangements for over **1,000 participants** and **54 eminent guests** from across the globe.
- Pioneered "Off campus Accommodation"** for the participants with the required security and transportation arrangements through tie up with **Tulip Living Solutions Pvt Ltd, Mumbai**
- Raised a **sponsorship** (as kind) of **INR 25,000/-** through tie up with **Linc Pen** as "stationary sponsor".
- Managed a team of **5 off campus volunteers from Kochi** to successfully conduct a pre-fest workshop and competition as a part of outreach program.

#### Initiatives

- Initiated Green Campus- an Eco Friendly campaign, conducting water audit of 3 hostels; resulting in institute to **section a pilot project** for grey water recycling in 2010.
- Initiated an Inter-IIT Energy Saving Championship in collaboration with 5 IITs leading to savings of worth 1.26million.

**DRAMATICS SECRETARY, HOSTEL 8, IIT BOMBAY**

[Aug 2009 – April 2010]

- Led the hostel to secure **1<sup>st</sup> position** out of 13 hostels in Inter Hostel Dramatics Championship.
- Was awarded a "**certificate of outstanding work**" for result oriented efforts throughout the tenure.

#### INDUSTRIAL EXPERIENCE

**GEOMETRIC LIMITED, PUNE[SUMMER INTERNSHIP]**

[May 2011 – June 2011]

(Automation of Core & Cavity Surfaces Identification for Injection Molding Parts)

- Developed an algorithm to correctly identify core and cavity surfaces of an injection molding part, given a parting direction.
- Included a **new feature** in the algorithm to indicate parting line also for the part.
- Programmed the algorithm with proper flexibility to show correct result for different parting directions of a given part.

#### KEY ACADEMIC PROJECTS

**STEREOSCOPIC DEPTH MAPPING OF IMAGES [Prof. S. S. Pande]**

[Aug 2011- Present]

- Studied and analyzed the existing methods for **3-D image generation**.
- Developed an algorithm to analyze 2 views of an image and thereby generating its **depth map** using stereoscopic methods.

**DATA ANALYZER [Prof. A. Ranade]**

[Aug 2008 – Nov 2008]

- Developed a program [C++] to analyze and highlight the mistakes in given bowling statistics of a bowler for an ODI cricket match.
- Included the feature to **represent** the given data in **graphical format**.

**MECHANICAL TREE CLIMBER [Prof C. Amarnath]**

[Jan 2011 – April 2011]

- Prepared a **completely mechanical robot** to climb up a tree/pipe of a given diameter.
- Simulated the upward and downward motion of the same using **ADAMS** as platform.

#### EXTRA CURRICULAR ACTIVITIES

- Technical**
  - Represented IIT Bombay at **SHAASTRA**, annual science and technology festival of **IIT Madras**. [2008]
  - Have completed successful models of remote controlled car and line follower.

- Social & Cultural**
  - Represented and grabbed a position for Hostel in Gyration, Inter Hostel Dance competition. [2009]
  - Was a member of winning team at **Freshie Production**, dramatics competition for freshmen. [2008]
  - Visited a Child Rehabilitation Camp as a member of National Social Scheme. [2008]

- Others**
  - Additional courses at **Industrial Design Center**: Introduction to industrial Design and Animation Basics.