



**Gaurav Chaudhary**  
**Mechanical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: Thermal & Fluids Engineering**

**09D10036**  
**UG Third Year(Dual Degree )**  
**Male**  
**DOB: January 4, 1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.10
Intermediate/+2	C.B.S.E	D.A.V. Public School, Talwara	2009	84.80
Matriculation	C.B.S.E	D.A.V. Public School, Talwara	2007	94.40

### Academic Achievements

- Recipient of the **National Talent Search Examination Scholarship** which is awarded by the **Government of India** to **only 1000 students** across the nation.
- Successfully completed **Boeing-Cranfield Summer Internship-2011**, sponsored by **Boeing India** at **Defence Academy of the United Kingdom**.
- Secured a position in **nation wise top 1 %** in **National Standard Examination in Astronomy** (NSEA 2007).
- Secured a position in **state wise top 1%** in **National Standard Examination in Physics**(NSEP 2009).
- Secured a position in **state's top 100** students in **State Level Talent Search Examination**(2006).
- Recipient of **Merit Certificate** from **Dayanand Anglo Vedic (D.A.V.) Board** for scoring over 90% marks in Class X and Class VIII examination.
- Recipient of **Merit Certificate** from **D.A.V. Board** securing **100%** marks in Class VIII and 100% marks in Class X CBSE mathematics examinations.
- Secured a position among the **top 0.7%** students in **IIT-JEE**(2009) among 400,000 candidates.
- Placed among the **top 0.4%** students in **AIEEE** (All India Engineering Entrance Examination 2009) out of 10, 00,000 students all over India.

### Internship and Work Experience

- Organisation: **Cranfield University, Defence Academy of the United Kingdom** (May, 2011- July, 2011)  
Sponsor: **Boeing India** Department: **Defence Acquisition**  
Position: **Visiting Research Student** Location: **Shrivenham, United Kingdom**
  - Gained experience in **acquisition** and defence.
  - Carried out a pilot project in **Cost modelling the Defence Equipment for Boeing**.
  - Prepared a detailed report on the topic and its historical development.
  - Carried out a survey to figure out the various commercial **forecasting tools** and their respective capabilities.
  - **Successfully applied the results** of the survey and historical readings to estimate the cost for a relevant problem to figure out the correctness of results.

Selected for a **further internship at Boeing India, Bangalore** during the month of **December, 2011**.

### Projects

- **Metallurgical Science** (July, 2011-November, 2011)
  - Guide: Prof. GV Prabhugaonkar (MEMS, IIT Bombay)
  - Subject: To suggest an improved material for the manufacturing of submarine hull.
  - Figured out different kind of materials that are currently being employed for the purpose.

- Study of properties of various materials, used in building inner submarine hull, considering their advantages and disadvantages.
- Suggested the use of an alloy which would satisfy many of the desired requirements of the material.
- **Software Project** (July, 2009-November, 2009)
  - Guide: Prof. Deepak B Phatak(CSE, IIT Bombay)
  - Subject: Mini Unique ID project for IIT Bombay Campus(A team project).
  - The project was made in **C++** programming.
  - Developed with the aim to provide all the residents and students of IIT Bombay a unique ID.
  - The project involved receiving data from a biometric device (fingerprints), analysing it and using that data to keep attendance and other records of students.
  - Handled the **Data Handling and Processing** Part.
  - The project received a lot of appreciation from the professor.

#### Technical Skills

- **Operating systems:** MS Windows, Linux
- **Programming Languages:** C++, Python
- **Software Packages:** Basic knowledge in MATLAB, SCILAB, LABview, Solidworks

#### Relevant Courses Taken (includes the courses to be taken in the Sixth Semester)

- **Mechanical:**
  - **Thermal and Fluids:** Thermodynamics, Advanced Thermodynamics and Combustion, Applied Thermodynamics, Fluid Mechanics, Fluid Dynamics, Heat transfer
  - **General Courses:** Solid Mechanics, Strength of Materials, Manufacturing Processes I and II, Engineering Drawing, Engineering Mechanics, Engineering Metallurgy, Kinetics and Dynamics of Machines
  - **Lab courses:** Solid Mechanics Lab, Manufacturing Practice Lab, Manufacturing Processes Lab, Fluid Mechanics Lab, Kinetics and Dynamics of Machines Lab, Heat Transfer and Metrology Lab
- **Aerospace:** Introduction to Aerospace engineering
- **Mathematics:** Calculus, Linear Algebra, Ordinary Differential Equations, Numerical Analysis
- **Others:** Computer Programming and Utilization, Modern Physics , Introduction to Electrical and Electronic Circuits, Experimental and Measurement Laboratory, Data Analysis and Interpretation

#### Extra-curricular activities and Positions of Responsibility

- **Sports:** Represented District in **State Level Games (Lawn Tennis)** ,held at Amritsar in 2002 and 2003.
- **Cultural:** Currently enrolled in Institute's **German Language Course**.
- Worked as House Captain in the school and was responsible for all activities of house and supervised around 200 students.
- Worked as an Coordinator of Mood Indigo 2010- the annual cultural festival of IIT Bombay and Techfest 2011 .
- **NCC** (National Cadet Cops) , **B Grade** Certificate Holder.