



Palash Agrawal
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: None

100100066
UG Third Year (B.Tech.)
Male
DOB: 29 March 1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	9.10
Intermediate/+2	CBSE	MGM Sr Sec School, Bhilai	2010	92.00
Matriculation	CBSE	Atomic Energy Central School, Mysore	2008	94.80

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 457** amongst nearly 4,70,000 students in **IIT-JEE 2010**.
- Secured **State Rank 6** (Chattisgarh) and All India Rank 793 in **AIEEE 2010**.
- Secured **48th Rank** in **Karnataka Common Entrance Test (Engineering) – 2010**.
- Awarded **National Talent Search Examination (N.T.S.E.) Scholarship** in the year 2008. Secured **2nd position** in the **State Level National Talent Search Examination**.
- Secured **All India Rank 47** in **National Science Olympiad 2010** and **All India Rank 97** in **International Mathematics Olympiad 2010** conducted by the Science Olympiad Foundation.
- Secured **1st rank** in Atomic Energy Central School, Mysore for Senior Secondary School Certificate Examination-2008 (Class-X) and was awarded **Merit Certificate for Academic Excellence**.
- Awarded **high distinction** in **Australian National Chemistry Quiz-2008** conducted by Royal Australian Chemical Institute.

MANAGERIAL PROJECTS

- **Analysis of Bandra-Worli Sealink Project**
Guide: Prof. Karuna Jain (S.J.M. S.O.M., IIT Bombay) (September 2012 – Present)
 - Analyzing the Bandra-Worli Sealink Project with focus on **aspects of project management** like techno-economic feasibility, WBS, OBS, scheduling and cost estimation.
- **Marketing strategies of Pepsico**
Guide: Prof. Dinesh Sharma (S.J.M. S.O.M., IIT Bombay) (March 2011 – April 2011)
 - Studied **marketing strategies** and methodologies of market capture employed by PepsiCo.
 - Carried out a **SWOT and PEST analysis** of PepsiCo. and its products.
- **Analysis of annual report of HCL Technologies Ltd.**
Guide: Prof. V. Bapat (S.J.M. S.O.M., IIT Bombay) (August 2011–September 2011)
 - Checked for **compliance** with corporate governance policies and **accounting standards as per the Institute of Chartered Accountants of India**.

TECHNICAL PROJECTS

- **Pressure vessel design**
Guide: Prof. Arindrajit Chowdhury (IIT Bombay) (June 2012 – August 2012)
 - A pressure vessel was to be designed to observe **spray characteristics of straight vegetable oil at high pressures and temperatures** so as to gain insight into the **usability of the oil in compression-ignition engines**.
 - The initial cylindrical design was infeasible as the equipment to be used in tandem with the vessel imposed **severe space constraints**.
 - Developed a **non-conventional square design** which would fit in the given space while bearing the pressures and temperatures as well as supporting all the fixtures adequately.
- **Reduction of burr formation in drilling of aerospace composites**
Guide: Prof. Ramesh Singh (IIT Bombay) (October 2012 – Present)
 - Currently studying **effect of drilling parameters** namely, rpm and feed rate on burr formation.
- **YDSE Pattern Generator**
Guide: Prof. R. K. Joshi (IIT Bombay) (March 2011 – April 2011)
 - Developed a C++ program that generates the diffraction pattern that would be observed upon setting up the Young's double slit experiment based on the parameters entered.

OTHER EXPERIENCES

- **Seminar with Q.E.A. Eduventures Pvt. Ltd.** *(December 2010)*
 - Conducted a seminar to create awareness about competitive examinations and career planning and gave tips to help students prepare for competitive examinations.
- **'Catch Them Young' Program – 2007, Infosys Technologies Ltd.** *(April 2007)*
 - Selected for '**Catch Them Young**' program - 2007 of **Infosys Technologies Ltd.** at Mysore and completed the two week program on **exposure to the I.T. Industry** and software development.

POSITIONS OF RESPONSIBILITY

- Was **School Captain** of Atomic Energy Central School, Mysore in Class-X (2007-2008).
- Was **School Vice-Captain** of Atomic Energy Central School, Mysore in Class-IX (2006-2007).
- Worked as a **Coordinator for Lecture Series, Techfest 2012.**

COURSES

- **Department Courses**
 - Heat Transfer, Fluid Mechanics, Thermodynamics, Fluid Mechanics Lab
 - Industrial Engineering and Operations Research, Manufacturing Processes, Manufacturing Processes Lab
 - Strength of Materials, Engineering Metallurgy, Solid Mechanics, Strength of Materials Lab, Engineering Drawing
- **Management and Non-Technical Courses**
Project Management, Accounting and Finance, Marketing Management, Economics, Psychology
- **Mathematics Courses**
Data analysis and Interpretation, Calculus, Linear Algebra, Differential Equations, Numerical Analysis
- **Other courses**
Electrical and Electronics Circuits, Computer Programming and Utilization, Experimental and Measurement Laboratory, Modern Physics, Chemistry

CO-CURRICULAR ACTIVITIES

- Awarded the Orange Belt from Okinawa School of Karate.
- Played **table tennis** under the National Sports Organization (NSO).
- Won prizes in English and Hindi Elocutions and Debate, Essay writing, Skit and Group Dance at School level.

SKILLS

- **Software** : Solidworks, Ansys, Microsoft Office, Basics of MS Project and Matlab
- **Programming Languages** : C/C++
- **Operating Systems** : Microsoft Windows, Linux, Mac OS