



Digvijay Pravin Boob
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: None

100100008
UG Third Year (B.Tech.)
Male
DOB: 10-07-1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	9.25
Intermediate/+2	CBSE	Vidyamandir Senior secondary school	2010	90.06
Matriculation	Maharashtra Board	K J Somaiya High School	2008	94.00

SCHOLASTIC ACHIEVEMENTS

- **All India Rank 165 in IIT-JEE'10** amongst **4,75,000** students appeared for the examination.
- **All India Rank 239 in AIEEE'10** conducted by **Central Board of Secondary Education**
- **Ranked 30 at National level in VITEEE (Vellore Institute of Technology engineering entrance exam)'10** amongst **2,00,000** students appeared for the examination.
- Awarded **AP Grade** in subjects **Engineering Mechanics** and **Numerical analysis** for exceptional performance which is **awarded only for excellence** of student in respective subject **by recommendations of professor**.
- Secured **international rank 27** in **IMO'10(International Mathematics Olympiad)** and received **GOLD MEDAL** for **exceptional performance**.
- Was among the **top one percent** students who successfully cleared first level of **physics Olympiad (INPHO)** at National level and was among the **top 300 students from the country** who were selected.
- Was among **top one percent** students who successfully cleared first level of chemistry **Olympiad (INCHO)** at National level and was among the **top 300 students from the country** who were selected.
- Cleared **state and national** levels of **National Talent Search Exam (NTSE)'08**.
- Awarded **Certificate of Excellence** by **BVP (Bharti Vidyapeeth Pune)** for scoring **100%** in **Mathematics Exam** (which is held at **state level**) and securing **first rank in university**.
- **SCHOLARSHIPS:**
 - **MCM scholarship (IIT BOMBAY):** This scholarship is awarded each year to some selected students in the institute by **DEAN himself** for their **exceptional academic performance**.
 - **HIGH SCHOOL SCHOLARSHIP:** This is a scholarship exam conducted by government of Maharashtra at state level for free education of brilliant minds of state
- **Ranked 29th** at state level in **Maharashtra Talent search Exam(MTSE)'07**
- **Ranked 21st** at state level in **Maharashtra Talent search Exam(MTSE)'06**

PROJECTS UNDERTAKEN

- **Minesweeper:**
Developed a '**Minesweeper**' application using **c++** and **FLTK** graphic handler under guidance of prof. R K Joshi.
- **Robotic Dredger:**
Made a '**Robotic Dredger**' which was used to dredge the sediments and hyacinths from bed of a lake. Machine was tested inside lake and was found to be working successfully .
Guide: Prof. Amarnath.
- **Hexapod:**
Made a robot which has 6 legs and can **walk, turn, climb stairs, twist or dance**. Robot is commonly known as '**Hexapod**'.
- **Refrigeration:**
Increasing efficiency of refrigerator in terms of cost and energy consumption. This is an ongoing project under guidance of prof. M V Rane.

SOFTWARE SKILLS

- MATLAB(knowledge of graphics and image processing), Mathcad
- SolidWorks, AUTOCAD (Engineering Drawing, Machine part Design, assembly and simulation) EAGLE (PCB Designing), ANSYS.
- Languages: C, C++.
- Design: HTML, Adobe Photoshop.

COURSES UNDERTAKEN (till fifth semester)

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|--|--|------------------------------------|
| • Engineering Mechanics | Strength of Materials | Calculus |
| • Solid Mechanics | Manufacturing Processes I and II | Linear Algebra |
| • Thermodynamics | IEOR | Differential Equation |
| • Engineering Graphics | Heat transfer | Numerical Analysis |
| • Fluid Mechanics | Data analysis and interpretation | Introduction to probability theory |
| • Operation Management | Digital Electronics | Economics |
| • Philosophy | Modern Physics | |
| • Computer Programming and utilization | Introduction to Electrical and Electronics Circuit | |

POSITION OF RESPONSIBILITY

- **Radiance'13 Core Team Member:** Manager of Mechanical Engineering department festival-Radiance and responsible for events happening at Radiance.
- **Stude Club Manager:** Managing activities of the group which is in close connection with Dean and Prof. Gadre to enhance quality of life of students at campus.
- **Teaching Assistant:** Selected as **Teaching Assistant (TA)** for **Calculus** course for **exceptional performance** and **one of the second year UG TA** selected from **all the students of institute**. Responsible for
 - Handling a batch of 41 students.
 - Solving all queries relating academic performance.
 - Conducting Short quizzes and solving tutorials.
- Worked as coordinator at Radiance'12
- Worked as an **organizer at Mood Indigo'10** which is cultural festival of IITB.
- Worked as an **organizer at Techfest'11** which is technical festival of IIT Bombay.

EXTRA CURRICULAR ACTIVITY

- **Secured 3rd** position in **Pandora's Box** competition held at **Techfest'11** among **350** teams participated.
- Part of **National Sports Organization of IIT BOMBAY (NSO)** which is intensive program for freshmen that builds good quality sportsman and is an initiative by government of INDIA.
- **A cadet** of **NCC (National Cadet Corps)** and **completed A level** training and attended a camp under NCC which involved shooting, trekking.
- Made **line follower autonomous robot** using **AVR AtMega** microcontroller with wireless communication between other 2 line following bots for a competition called 'iNexus'.
- Made a **wireless remote controlled** car with own design, selection of material.
- **Secured first prize** in movie making competition held at silverscreen orientation.
- **Successfully completed** a workshop conducted by **THINKLAB** which involved building autonomous robot using discrete electronics components.