



Bonish Gandhi
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: Mechanical Engineering

09010001
UG Third Year (B.Tech.)
Male
DOB: 05/08/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.63
Intermediate/+2	GSEB(Gujarat State Board)	New Samarth High School	2009	79.00
Matriculation	GSEB(Gujarat State Board)	Hiramani Secondary School	2007	89.30

ACHIEVEMENTS

- **Ranked 400** at **National** Level in **IIT-JEE '09** amongst **3,97,000** students appeared for the examination.
- **Ranked 24** at **State** Level and 1027 nationally in All India Engineering Entrance Examination (**AIEEE**) '09 conducted by **CBSE(Central Board of Secondary Education)** amongst the 1,00,000 candidates.
- **Secured 1st** position in **Extempore** Competition (Just a JAM) held at Harvard School, Gandhinagar. [2005]
- **Ranked 2nd** in city (Ahmedabad) in **NIMO** (National Interactive Mathematics Olympiad) in Class 10th . [2007]
- Secured **1st position in NEXUS NAVIGATE**, in the Western India held as a part of Techfest 2011. The competition involved making a grid solving autonomous robot that brings a specified block to its starting position.
- Awarded **Certificate of Merit in 2007** by **GSEB** for scoring 100% in examination of **Mathematics**. [2007]

PROJECTS UNDERTAKEN

COMPLETE MARKET RESEARCH ON MICROSOFT

- Studied the market position of **Microsoft** and conveyed SWOT, Four P(Product, Price, Promotion and Place), PORTER's five forces and PESTAL analysis of the software giant.
- Guide: Prof. Dinesh Sharma, Department of **Marketing Management**, Shailesh J Mehta School of Management, IIT Bombay.

UNIQUE IDENTIFICATION PROJECT

- Developed and Documented a **Program** to *Uniquely Identify the fingerprint of a registered student* and store the files of a new date in a separate directory using the **C++ language**.
- Guide: Prof. Deepak B. Phatak, Department of **Computer Science and Engineering**, IIT Bombay

STRENGTH OF MATERIALS PROJECT

- Prepared a case study on what materials are used for building **High speed Sealift Vessels (HSS)**.
- Guide: Prof. G.V. Prabhugaonkar, Department of **Metallurgical Engineering and Material Sciences**, IIT Bombay

ILLUSTRATION OF COANDA EFFECT

- Illustrated the attraction of a spoon to a stream of water using a simple apparatus.
- **Guide:** Prof. Atul Sharma, Department of **Mechanical Engineering, IIT Bombay.**

AUTONOMOUS GRID SOLVING BOT

Worked on a project and secured first position (in western zone) in **Nexus-Navigate**(an event at Techfest-2011).

- It involved making an autonomous bot that can traverse a grid and bring back a specific block to the starting point.

PROGRAM FOR IMAGE CORRELATION IN MATLAB BY A GUI (Graphical User Interface)

- Created a **matlab** file that displays a GUI which offers different image operations on an image along with image offset and **correlation** between binary images.
- Created pushbuttons, menus, contextmenu, slider, textbox within the GUI by MATLAB code.
- **Guide:** Prof. Asim Tewari, Department of **Mechanical Engineering, IIT Bombay.**

IIT BOMBAY FSAE (Formula Student Automotive Engineering) TEAM

Currently working

- Using software like **SolidWorks** and different machining tools for designing and manufacturing the car.
- Designing the **steering mechanism** and deciding the steering parameters.

SOFTWARE SKILLS

- **Operating Systems** : Windows, LINUX
- **Programming/Scripting Languages:** C++ ,HTML, MATLAB.
- **Others:** Mathematica, Solidworks, Latex.

RELEVANT COURSES

- Marketing Management
- Human Resource Management
- Computer Programming and Utilization
- Data Analysis and Interpretation

POSITIONS OF RESPONSIBILITY

- **Class Representative of Third year Batch of Mechanical Engineering, IIT Bombay**
[2011 to Present]
 - Representing a batch of 120 students.
 - Responsible for smooth communication between the Professors and students.

EXTRA CURRICULAR ACTIVITIES

- Part of the **National Services Scheme** of IIT Bombay in **Educational Outreach** and **GRA**(Group for Rural Activities).