



Gaurav Misra
Mechanical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 23-11-2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

Pursuing a Minor degree in **Management** at Shailesh J Mehta School Of Management, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- **All India Rank 966** in JEE Advanced out of **150 thousand** candidates across the country (2020)
- **99.95 percentile** in JEE Mains Examination among over **1.1 million** candidates (2020)
- **387/450** marks in BITSAT Examination held by Birla Institute of Technology and Science (2020)
- **94.77%** in the Maharashtra State Board Examination (2020)
- **AA** grade in Introduction to Renewable Energy Technologies Course (2021)
- **AIR 511** in the Kishore Vaigyanik Protsahan Yojana Exam (2018)
- **First** in Thakur Public School in the ICSE Board Examination, with a percentage of **97.67** (Academic Year 2017-18)

KEY PROJECTS

Creating a One Time Password Checker (Autumn 2021)

EE101 Course Project (Optional) | Guide: Prof. Subhananda Chakrabarti

- Designed a **three-digit OTP Verifier**
- Built an **Analog Circuit** for the same
- Explained how the device worked in a comprehensive **report**, which also included four separate examples of inputs and the corresponding outputs

Game Theory Project (Summer 2021)

MnP Club Project | Guide: Harshit Jain

- Conducted extensive research on the subject of **Game Theory** and its applications to real-life scenarios under the **Summer of Science** initiative by the Math and Physics Club at IIT Bombay
- Summarised my learning in a **51 page report** that was reviewed by Math and Physics Club Seniors
- Also created a short **video presentation** on a subtopic of Game Theory, namely, the Iterated Removal of Strictly Dominated Strategies
- Received a certificate from the MnP Club for successfully completing the project

Voice Controlled Car | Team Project (Winter 2017)

School Exhibition Project

- Created a Voice Controlled Car in **10th grade**, along with three other teammates
- Used and coded an **Arduino IC** for the same
- Car was displayed at the **Thakur Public School Exhibition** for the academic year 2017-18, where it was viewed by the School Principal and the Trustee

Gauging the Amplitude of Sound Waves | Team Project (Winter 2017)

School Exhibition Project

- Ideated, Designed and Constructed a very simple device, along with a teammate, that allowed users to roughly gauge the amplitude of any sound they emitted
- Showcased the same at the School Exhibition, and received rave reviews

Creating an IR Remote | Team Project (Current)

Tinkerer's Lab Project

- Pursuing a project to create a remote with an Infrared Transmitter
- The primary driving force behind the idea was to control the speed of Hostel fans, some of which do not have regulators

POSITIONS OF RESPONSIBILITY

Coordinator - Horizons | Mood Indigo, IIT Bombay

(Current)

Asia's largest College Cultural Festival | Viewership: **100000+** | **3+** hours viewing time

- Tasked with **databasing**
- Entrusted the job of shortlisting names and contact details of lesser known actors to be invited to showcase their talent

TECHNICAL SKILLS

Programming :	C++, Python, Java, HTML
Tools & Software :	Microsoft Office, L ^A T _E X

RELEVANT COURSES TAKEN

Mechanical Engg.	Engineering Mechanics Solid Mechanics (with a Lab Course*) Fluid Mechanics (with a Lab Course*) Mechanical Engineering Thermodynamics Structural Materials Strength of Materials* Mechanical Measurements* Manufacturing Processes (with a Lab Course)* Engineering Graphics and Drawing
Math & Analytics	Introduction to Numerical Analysis* Computer Programming and Utilization Differential Equations Linear Algebra Calculus I & II
Miscellaneous	Biology Economics Basics of Electricity & Magnetism Physical Chemistry Organic & Inorganic Chemistry Quantum Physics & its Applications Introduction to Renewable Energy Technologies Introduction to Electrical and Electronic Circuits
Coursera	Game Theory IoT: Developing and Deploying an Internet of Things* Blockchain: Foundation and Uses* Big History: Connecting Knowledge*

(* - to be completed by May 2022)

EXTRACURRICULAR ACTIVITIES

- Self-Learning **Spanish**, using the Collins Spanish Grammar and Practice textbook as a guide (Current)
- Completed a 1-year course in **Chess** under the **National Sports Organisation**, IIT Bombay (2021)
- Participated and contributed to the team score at the **Inter Hostel Chess Competition** at IIT Bombay (2021)
- Elected **Chief Editor** as part of the **Thakur Public School Council** (2017-18)
- Spoke at the **AIMS Inter ICSE School Debate Competition** (2016)
- Spoke at **The Frank Anthony Memorial All India Inter School Debate Competition** in the preliminary round (2017)
- Received Entry Level Award from **Trinity College London** in the Graded Examination in **Rock and Pop Guitar** (2017)
- **International Rank 8** in the Marris International Spelling Bee Competition (2011-12)