

Pursuing a **Minor in Management** from SJMSOM, IIT Bombay with **CPI 10**

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank **240** in Joint Entrance Examination (**JEE Advanced**) amongst **250,000** candidates (2019)
- Secured All India Rank **60** in **JEE Mains** out of **1 million** candidates; was the **Gujarat State Topper** (2019)
- Recipient of the **KVPY Fellowship** awarded by the Department of Science and Technology, GOI (2019)
- Recipient of the **Institute Academic Prize** for exceptional performance; Ranked **22nd** in the Institute (2020)
- Nominated for the OPJEMS scholarship for **exceptional academic performance and leadership** potential (2020)
- **Ranked 9th** in a batch of **160+** students in the Department of Electrical Engineering, IIT Bombay (2021)

PROFESSIONAL EXPERIENCE

Business Analyst Intern | *Smit.fit*

(May '21 - July '21)

- **Formulated strategies** for the sales team that led to a **70% increase** in the **customer acquisition rate**
- Evaluated **financial statements**, **growth** in the diabetic sector, and **business models** of **10+ Patient Support Programs** (PSPs) of pharmaceutical companies for potential **partnership** in the **B2B2C** market segment
- Performed **competitive benchmarking** against **15+** Indian and global peers; recommended key changes to **pricing model**, **customer engagement strategy**, and proposed the introduction of a **medical devices starter kit**

KEY PROJECTS AND TECHNICAL EXPERIENCE

Chief Electrical Designer | *AUV-IITB*

(August '19 - Present)

A multi-disciplinary, all-student team working on the development of an Autonomous Underwater Vehicle, Matsya, capable of performing realistic naval missions, competing annually at AUVSI, RoboSub, San Diego

- Implemented **Underwater Localization** of static target using **FPGA** for **faster real-time localization** in hardware and **improved performance** by **45x**, **replacing** the Data AcQuisition (**DAQ**) system in the process
- **Supervised a team of 3** students involved in the **integration** of the **STM32 ARM-based** microcontroller to **upgrade** the present electrical stack for **size reduction**, **improved performance**, and **reliability**
- Secured **3rd** position in the team video presentation out of **33 International teams** in **RoboSub '20**

Underwater Remotely Operated Vehicle (ROV) | *L&T Defense*

(March '20 - Present)

DST IMPRINT IIC

Project Guide: Prof Leena Vachhani

The project is a joint effort by IITB and Larsen & Toubro Ltd. under the IMPRINT IIC scheme of MHRD

- Key member of **electrical subdivision** of the team working in the design & development of a **Class-1 ROV**
- Currently in the Fabrication Phase; the ROV is to be **deployed** in sea waters for **scanning and maintenance**

POSITIONS OF RESPONSIBILITY

Department Academic Mentor | *Department of Electrical Engineering*

(June '21 - Present)

- Selected as a mentor from **80+** applicants on the grounds of **ethics**, **interviews**, and **extensive peer reviews**
- **Guiding 8** sophomores in their academic and co-curricular pursuits by leveraging the resources of the institute
- Collaborating with a **team of 35** seniors towards building a support system for students in the department

Teaching Assistant | *Department of Mathematics*

(April '21 - June '21)

- Responsible for **mentoring a batch of 40+** students for the course **MA108** (Differential Equations I)
- Conducted tutorials for **problem-solving** and helped clear conceptual doubts through **personal interaction**

TECHNICAL SKILLS

- **Programming:** *Python, Julia, C++, MATLAB, HTML*
- **Software:** *Microsoft Excel(Advanced), SQL, Tableau, L^AT_EX, Number Analytics*

EXTRACURRICULARS

- Attended FLY(Finding the Leader in You) **Leadership Bootcamp** by **CMI, USA**, held in May 2021
- Awarded **Special Mention** at Indian International Model United Nations (**IIMUN**) **2015-16**
- Attended a **national level** Summer Camp on **Entrepreneurial Stimulation** at EDI, Ahmedabad, in 2013
- Member of the **high school Basketball Team**, competed in various **school and state-level tournaments**
- Trained under **National Sports Organization**, IIT Bombay for **80+ hours** in **Swimming**, 2019-20
- Pursued self-paced online courses on **Financial Markets**, **Game Theory**, **Excel**, and **Machine Learning**
- Completed a reading project on **Game Theory** under the **Summer of Science** initiative by Maths & Physics Club
- Participated in the Inter-Hostel Music League 2020-21 as a keyboardist under the solo instrumental category