



Shubham Mehta

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📅 Date of birth: 17 May 2001 🇮🇳 Nationality: Indian

ABOUT ME

I am a motivated and dedicated Mechanical Engineer, who graduated from Dwarkadas J. Sanghvi College of Engineering in Mumbai, India, with a strong interest in Robotics and Drones. I have completed technical, teaching, and management internships, providing valuable experience and knowledge. My ability to solve problems effectively, think creatively, have a work ethic, lead teams, communicate clearly, and manage time efficiently has made me a highly valuable member of any team.

WORK EXPERIENCE

[11 Mar 2024 – 12 Aug 2024]

Technical operations lead

Encora Air Pvt. Ltd

City: Mumbai | Country: India

1. **Lead** daily operations of the **technical department**.
2. **Plan** and **coordinate** technical processes with **cross-functional teams**.
3. **Ensure** compliance with industry **regulations** and **safety** standards.
4. Manage **troubleshooting** and **provide** hands-on **technical support**.
5. **Analyze performance data** for operational efficiency and continuous improvement.

[16 Jan 2023 – 8 Mar 2024]

Robotics Designer

Photom Technologies Pvt. Ltd

City: Ahmedabad | Country: India

1. **Designing** Solar panel **cleaning robots** (Autonomous and Manual).
2. **Customizing** Designs as per the customer's request.
3. Working with **the Electronics and Manufacturing team**,
Guiding them further to work on the design.

INTERNSHIP

[12 Sep 2022 – 10 Jan 2023]

Drone Pilot and Aviation Research Intern | Flyo Eduventures Pvt. Ltd

1. Designed and fabricated **medical drone**.
2. **Testing** of various drone frames.
3. Conducted **research** based on an **aerial survey**

[18 Jul 2022 – 17 Aug 2022]

Robotics Instructor and Human resources assistant | Brainlox

1. **Coached robotics** to students aged 12-22 years.
2. **Managed** and **scheduled** lectures as part of the **HR team**.
3. **Answered** students' **questions** and concerns.
4. Conducted **onboarding** sessions for **newly joined interns**.

[1 Apr 2019 – 1 May 2020]

Digital Marketing Intern | Viral Fission

1. Conducted **Market-based research** for brands like **Jio Saavn, OnePlus, Myntra, Vice** and **Times Network**.

2. Learned various software like **Adobe Photoshop** and **Adobe Illustrator**.
3. **Managed** the **database** of these brands and **represented** it in the **form of Gantt charts** and **graphs** using **Tableau** and **Power Bi**

EDUCATION AND TRAINING

[Sep 2024 – Current]

MBA in Technology Management

Tuhh's Northern Institute of Technology Management

<https://www.nithh.org/>

City: Hamburg | Country: Germany |

[18 Aug 2019 – 25 Jun 2023]

Bachelor Of Technology in Mechanical Engineering

Dwarkadas J. Sanghvi College of engineering

<https://www.djsce.ac.in/>

City: Mumbai | Country: India |

EXTRA CURRICULAR

[20 May 2022 – Current]

Founder and Captain | DJS Astra

1. I **formed** and **led** a team of **25 members** from various branches to gain hands-on experience in **combat robotics**.
2. Our team, **DJS Astra**, is interested in **combat robot research** and **development** and we **compete nationally and internationally**.
3. We successfully **designed** and **built** three **combat robots** weighing **8 kg, 15 kg, and 30 kg**.

[Nov 2021 – Nov 2022]

Captain | DJS Phoenix

1. I was the **Captain** of **DJS Phoenix**, a team of drone enthusiasts, and I **mentored** a group of **15 people** as we designed, built, and **competed** in autonomous and racing drones in various **national** and **international aerial robotics** events.
2. As a result of our collaborative efforts, we successfully built and piloted four drones, and we **won** prestigious competitions such as **COEX, IDRL, and iMAV**.

PROJECTS

[10 Jul 2022 – 12 Sep 2022]

Structural Analysis of a Drone Frame (Solidworks 2021 & Ansys 2020)

1. **Analyzed a Drone frame** as a part of the course project for the most appropriate material selection for optimum strength **using Ansys 2020**.
2. **Material selection** was based on material properties like **Tensile Strength, Modulus of Rigidity, Stiffness**, and its behavior to loads like **Deformation and Stress values**.

Link: <https://cutt.ly/Structural-Analysis-of-a-Drone-Frame>

[9 Jan 2021 – 15 Mar 2021]

Design of a waterproof drone based on the Lotus concept (Solidworks 2021)

1. The **Lotus drone** was designed to **withstand various harsh climate conditions** such as stormy weather, heavy wind, and rain.
2. The drone's design makes it suitable for **surveillance** and **rescue missions**.
3. Lotus drone **frame** is currently under **patent** process.

Link: <https://cutt.ly/Lotus---A-waterproof-Drone>

[2 Apr 2020 – 10 Jun 2020]

Air ambulance (Solidworks 2020)

1. This project introduces a **drone medical application**.
2. Drone-based **ideology** focuses on **bringing aid** to victims as **rapidly** as possible.

3. As a result, **the victim does not have to wait for an ambulance** that may be stalled **in traffic** or in case of **no ambulance** is available.
4. It does not require any pilots because it is **Autonomous**.
5. The drone is outfitted with a monitor and camera that **connects** the incident site **directly to the doctors**, allowing for on-the-spot First Aid Treatment.

Link: <https://cutt.ly/Air-Ambulance-video>

[11 Mar 2019 – 8 Apr 2019]

Vertical Wind turbine (Solidworks 2019 and Blender)

1. This **portable** vertical wind turbine can be used to **produce power** in **any weather** because of its **mobility**.
2. It can be **used** for a **variety of purposes**, including long trips or journeys.
3. It **weighs** less than a kilo, which is **incredibly light**.

Link: <https://cutt.ly/Portable-wind-turbine-video>

PUBLICATIONS

[2023] [Swarm Drone Technology](#)

[2023] [Design and Fabrication of bird inspired VTOL UAV](#)

[2022] [Application of Mechatronics in Rail Industry](#)

HONOURS AND AWARDS

[Apr 2023] **2nd position at DJS Nirmiti's Project competition Awarding institution:** Dwarkadas J. Sanghvi college of engineering

1. Won **2nd rank** among **40 teams** for project titled - Design and Fabrication of biomimetic inspired VTOL UAV

Link: https://cutt.ly/DJS_Nirmiti_Certificate

[23 Apr 2022] **Grand Finalist of CopterHack'22 Awarding institution:** Copter Express

1. Secured **1st rank** in **Asia** and **7th rank worldwide**.

Links: <https://cutt.ly/COEX-Certificate> | https://clover.coex.tech/en/djs_phoenix_ikshana.html

[12 Sep 2021] **Winner of European Rover Challenge Awarding institution:** ERC, Kielce University of Technology

1. Secured the **1st place internationally** after winning four of the five task-based challenges.

Link: <https://cutt.ly/ERC-certificate>

[Jun 2020] **Winner of Engineering Mechanics Quiz Awarding institution:** Potti Sriramulu Chalavadi Mallikarjunarao College of Engineering & Technology

1. Scored **92%**, among **100 contestants** from across the nation.

Link: <https://cutt.ly/Mechanics-quiz-certificate>

[1 Jun 2020] **Winner of Electronic's eQuiz competition Awarding institution:** SVKM's Shri Bhagubhai Mafatlal Polytechnic

1. I won this quiz with **96%**, edging out **40 competitors** from the state.

Link: <https://cutt.ly/Electronics-e-quiz-certificate>

CERTIFICATIONS

G-Suite Administration Specialization

Link: <https://cutt.ly/Gsuite-specialization-course>

MATLAB: Onramp

Link: <https://cutt.ly/Matlab-certificate>

LANGUAGE SKILLS

Mother tongue(s): Gujarati **Other language(s):** English