



# Shubham Mehta

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## ● 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 internships in the technical, teaching, and management fields, providing valuable experience and knowledge. My ability to solve problems effectively, think creatively, work ethic, lead teams, communicate clearly, and manage time efficiently has made me a highly valuable member of any team.

## ● WORK EXPERIENCE

15/01/2023 – CURRENT Ahmedabad , India

### ROBOTICS DESIGNER PHOTOM TECHNOLOGIES PVT. LTD

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.

**Business or Sector** Professional, scientific and technical activities

11/09/2022 – 10/01/2023 Mumbai, India

### DRONE PILOT AND AVIATION RESEARCH INTERN FLYO EDUVENTURES

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

18/07/2022 – 17/08/2022 Houston , United States

### 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**.

20/05/2022 Mumbai, India

### 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**.

11/2021 – 11/2022 Mumbai, India

## CAPTAIN DJS PHOENIX

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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**.

01/04/2019 – 01/05/2020 Mumbai, India

## DIGITAL MARKETING INTERN VIRAL FISSION

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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**

## ● EDUCATION AND TRAINING

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18/08/2019 – 25/06/2023 Mumbai, India

### BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING Dwarkadas J. Sanghvi College of engineering

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**Address** No.U-15, J.V.P.D. Scheme, Bhaktivedanta Swami Marg,, Opp. Cooper Hospital Vile Parle (West), 400056, Mumbai, India

**Website** <https://www.djsce.ac.in/> | **Field of study** Mechanical Engineering | **Final grade** 8.21

07/04/2018 – 11/05/2019 Mumbai, India

### HIGHER SECONDARY EDUCATION St. Rock's College of Commerce and Science

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**Address** 1-B, Randive Marg, Chikoowadi, Borivali West, Mumbai, Maharashtra, 400092, Mumbai, India |

**Field of study** Natural sciences, mathematics and statistics | **Final grade** 60.46%

12/06/2016 – 05/06/2017 Mira road, India

### SECONDARY SCHOOL CERTIFICATE St. Xavier's High School

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**Address** Sector 5, Srishti Complex, Mira road, Maharashtra, 401107, Mira road, India | **Final grade** 78.20%

## ● DIGITAL SKILLS

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Organizational and planning skills | CAD and CAM | Decision-making | Analytical skills | MATLAB | Ansys Workbench | Solidworks | 3D printing | Python | Office 365 | Blender

## ● ADDITIONAL INFORMATION

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### PROJECTS

10/09/2022 – CURRENT

#### Design and Fabrication of a Biomimetic-inspired VTOL Unmanned Aerial Vehicle (Solidworks 2022, Ansys 2022 R1 and Blender)

1. The project entails creating **an aircraft that mimics bird flight mechanics**.
2. The design process typically entails **studying** the biomimetic model's **aerodynamics**, **analyzing** its **flight characteristics**, and **creating a 3D model** with CAD software.
3. Overall, the **goal** of a biomimetic-inspired VTOL UAV is to **improve flight maneuverability, agility, and efficiency**, which can be used in a variety of fields such as aerial surveying and search and rescue operations.

**Links** <https://cutt.ly/Bird-VTOL-UAV-image> | <https://cutt.ly/Report-Of-Biomimetic-inspired-VTOL-UAV->

10/07/2022 – 12/09/2022

### 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>

09/01/2021 – 15/03/2021

### 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>

17/04/2021 – 20/04/2021

### Turtle - A line following bot. (Solidworks 2021)

1. A **line-following bot** built with **Arduino** and **Smartelex** as input IR sensors.
2. The **turtle bot** was created using **Solidworks 2021**.

Link <https://cutt.ly/Turtle-Bot>

02/04/2020 – 10/06/2020

### 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>

11/03/2019 – 08/04/2019

### 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>

## HONOURS AND AWARDS

04/2023

### 2nd position at DJS Nirmiti's Project competition – Dwarkadas J. Sanghvi college of engineering

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

Link [https://cutt.ly/DJS\\_Nirmiti\\_Certificate](https://cutt.ly/DJS_Nirmiti_Certificate)

22/01/2023

### Placed 6th among 20 teams in Drone Racing Amalthea – IIT Gandhinagar

1. Achieved **6<sup>th</sup> rank** among **top 15 teams** in Amalthea's DRA hosted by **IIT Gandhinagar**.

Link <https://cutt.ly/IDRL-Certificate>

23/04/2022

### Grand Finalist of CopterHack'22 – Copter Express

1. Secured **1<sup>st</sup> rank** in **Asia** and **7<sup>th</sup> rank** worldwide.

Links <https://cutt.ly/COEX-Certificate> | [https://clover.coex.tech/en/djs\\_phoenix\\_ikshana.html](https://clover.coex.tech/en/djs_phoenix_ikshana.html)

12/09/2021

**Winner of European Rover Challenge – ERC, Kielce University of Technology**

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

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

06/2020

**Winner of Engineering Mechanics Quiz – 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>

01/06/2020

**Winner of Electronic's eQuiz competition – 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>

## **LANGUAGE SKILLS**

### **Gujarati**

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1. **Mother Tongue**

### **Hindi**

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1. **Native Fluency**

### **English**

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1. Full working **proficiency**
2. IELTS overall band score: **7 out of 9**
3. CEFR level: **C1**

## **CERTIFICATIONS**

### **G-Suite Administration Specialization**

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

### **MATLAB: Onramp**

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