

Devansh Shah

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Mechanical Engineer, interested in designing and aerospace. Having experience in manufacturing RC aircraft and designing sounding rockets. Like to gain new experiences, travel, and learn about new technologies.

Education

K J SOMAIYA COLLEGE OF ENGINEERING

B. Tech in Mechanical Engineering.

CGPA: 8.14/10

Mumbai

2018 – 2022

SHRI T P BHATIA JUNIOR COLLEGE OF SCIENCE

Graduated with 84.92% in class 12th from HSC board

Physics, Chemistry, and Mathematics with Mechanical Maintenance (Vocational).

Mumbai

2017 – 2018

CAMBRIDGE SCHOOL

Graduated with 87.8% in class 10th from ICSE board

Mumbai

2015 – 2016

Experience

PRAAN CLIMATE TECHNOLOGIES

Mechanical Design and Test Engineer

Mumbai

July 2022- Present

- System design working alongside Industrial Designers and Product Managers
- CAD development, Design for Prototyping, and Production.
- New Vendor Development & Sourcing
- Manufacturing and Tolerancing across Sheet metal (Stainless Steel and Aluminium).
- Pilot Planning, Logistics, and Deployment across India
- Test Rig design, development, and execution
- Running and automating pollution testing.

PRAAN CLIMATE TECHNOLOGIES

Mechanical Design and Test Engineering Intern

Mumbai

April 2022 - June 2022

- Working on designing and developing of filterless air purifier.
- Developing and designing an indoor air purifier.
- Testing of prototypes to collect necessary data and modify accordingly.
- Conducting research on different manufacturing techniques for production.

SPACE TECHNOLOGY AND AERONAUTICAL ROCKETRY

Research Intern (Mechanical Design & Propulsion)

Remote

August 2021 – April 2022

- Design, Development, and Optimization of the KALAM sounding rocket.
- Research on the material selection of Nose cone and Propellant tank.
- Conducted CFD drag simulations of the rocket nose cone.
- Research on composite propellant tanks for the sounding rocket.
- Used designing and simulation software such as Fusion 360, Solidworks, and ANSYS.

SPACE TECHNOLOGY AND AERONAUTICAL ROCKETRY

Design Intern

Remote

July – August 2021

- Designed the Static Test Pad (STP) for the testing of a high-powered rocket motor.

- Conducted Static Analysis of the STP using Fusion 360.
- Simulated the High Powered Rocket using OpenRocket.
- All designs were made in Fusion 360 and Solidworks.

TEAM ONYX INDIA, Mumbai

Mumbai

Senior Fabrication Engineer

June 2020 –May 2021

- Responsible for the fabrication of the RC Aircraft for the team.
- Participated in team-building activities to enhance working relationships.
- Part of the design team of the fuselage.
- Used Solidworks for 3D block and detailed CAD of the RC Aircraft.
- Made 2D DXF files used for Laser cutting of certain wood parts and fixtures used for assembling of the aircraft.

TEAM ONYX INDIA, Mumbai

Mumbai

Fabrication Engineer

June 2019 –May 2020

- Helped Seniors with the fabrication of RC Aircraft adhering to SAE design and fabrication rules.
- Identified problems and recommended new processes to improve efficiency and reduce costs.
- Used coordination and planning skills to achieve results according to schedule.

Projects

MODELLING, ANALYSIS, AND SIMULATION OF TOGGLE JACK:

- Conducted proper calculations necessary for designing a toggle jack.
- Designed the Toggle Jack in Solidworks and AutoCAD using the calculations done.
- Analyzed and Simulated Toggle Jack mechanical systems and mechanisms.
- Toggle Jack was modified into an electrically operated using car battery itself or an external battery.

DESIGNING AND FABRICATION OF AN RC AIRCRAFT:

- Selection of various configurations of the entire Aircraft was done.
- Different components of an aircraft were studied.
- The Design selection for Final Aircraft Design was conducted.
- Solid CAD model was made on Solidworks.

Skills & Interests

Technical: Solidworks, Ansys, AutoCAD, Autodesk Fusion 360, Manufacturing, Prototyping, Adobe Lightroom

Languages: English, Hindi, and Gujarati

Interests: Photography, Cycling, Travelling, and Watching Sci-Fi movies

Achievements

- Learned team working, handled pressure situations.
- Learned working in a fast-paced startup environment.