



## **Shubham Gangadhar Kurhade.**

Mechanical Engineer.

Pune, Maharashtra, India.

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### **Objective**

Intend to be a part of your prestigious organization where I can constantly learn and utilize my technical and shop floor management skills and make the best use of it for the growth of the organization.

### **Experience**

1. **Mechanical Engineer.** (November 2020-May 2021)  
Internship Trainee at AUTOTRANS SYSTEMS, Bhosari MIDC, Pune.
2. **CAE analyst.** (August 2020-September 2020)  
Intern at Infi League motorsports, Pune, Maharashtra.
3. **CAE engineer.** (May 2020-July 2020)  
Intern at Elevation, Pune, Maharashtra.
4. **Mechanical engineer.** (December 2019-January 2020)  
Intern at Maruti Suzuki, ACE Kudale Car Pvt Ltd – India
5. **Internship trainee.** (May 2019-July 2019)  
Mechanical engineering intern at Sigma electric manufacturing Pvt LTD, Pune

### **Education**

Sr. no.	Name of institution	Degree	Year	Grade/Marks
1	MIT ADT university's MIT School of Engineering, Pune, Maharashtra.	B.Tech. Mechanical engineering.	2017-2021	CGPA- 7.10 (first class)
2	MIT Junior college, Pune, Maharashtra.	HSC	2015-2017	Marks- 67%
3	MIT university's Shree Saint Dnyaneshwar Madhyamik Vidyalaya, Pune, Maharashtra	SSC	2015	Marks- 85%

### **Projects**

1. **Design and manufacturing of hybrid bike- Pedaltron**  
(May 2020-January 2021)  
Key skills- Solidworks, ANSYS workbench, manufacturing processes, Problem solving, analytical calculations, Electric bikes, motor calculations.  
Working on manufacturing of electric bike which includes chassis design, motor calculations, etc.
2. **Design, and fabrication of hydraulic cylinder for SPM**  
(November 2020-January 2021)  
Key skills- analytical calculations, problem solving, design calculations, CAD, Solidworks, engineering drawing, FEA, ANSYS, manufacturing, fabrication.  
Designed the hydraulic cylinder from scratch with the help of reverse engineering technique and optimization in terms of performance, cost as well as holding capacity.

3. Performing a steady state 1-way FSI analysis of wind turbine blade using ANSYS 18.2

(Jan 2020 – Jun 2020)

Key skills- Solidworks, Design modeler, ANSYS workbench, CFD, FLUENT

Wind turbine analysis on fluent to optimize and validate the performance and material used for manufacturing the blades of turbine.

4. To investigate the thermal performance of vertical plane and silted fins under natural convection.

(Aug 2019 – Dec 2019)

Key skills- Solidworks, analytical calculations, practical reading and verification.

Experimental verification of the performance of vertical fin array with slits in the manner of plane, 5,10,15,20 mm cut. Investigated that the array with the cut fins gave maximum efficiency and natural heat convection rate.

5. Manufacturing of multi-purpose mini farming machine for small farmland farmers.

(Jun 2018 – May 2019)

Key skills- Manufacturing, Creo, welding, electric motor, practical assembly of machine

Multi-purpose mini farming machine which is named as 'Agri-buddy'. It is the machine used for farming processes like ploughing, seeding, spraying pesticides, crop cutting.

**Licenses and Certifications**

1. ANSYS basics to professional Training Program Eleation Academy, Pune
2. Mastering ANSYS CFD Level 1- Udemy
3. Electric Vehicle Technology Part-1-Udemy.
4. Introduction to programming with MATLAB-MathWorks Inc. (Coursera).

**Skills**

<b>Technical skills</b>	Manufacturing processes, fluid and thermodynamic processes, design of machine, Strength of machines, kinematics of machinery, Total productive management, MS Office, Finite Element Analysis, Finite Volume Method, Computational Fluid Dynamics, Computer Aided Design, Plastics and sheet metal modeling, GD&T (2D &3D).
<b>Tools</b>	HYPERMESH, ANSYS, OPTISTRUCT, SOLIDWORKS, CREO, ICEM, FLUENT, RADIOSS, AUTOCAD, MATLAB, Autodesk Fusion, SIX Sigma.
<b>Soft skills</b>	Creativity, Adaptability, ability to work under pressure. Problem-solving skills, Creativity, Interpersonal skills, verbal and written communication skills.
<b>Languages</b>	English, Marathi, Hindi, Sanskrit.

**Accomplishments**

- Event manager at MIT ADT University organized fest PERSONA.....February 2018
- Student body president at ABVP.....July 2019-2020
- Certification of SOLIDWORKS competition AAKRUTI 2020 .....January 2021
- **Received copyrights** for the design of Hybrid Electric bike ‘Pedaltron’ .....February 2021
- **Research paper publication** on “Design and analysis on hybrid Ebike chassis”. [Link of the paper](#) May 2021

**Personal details**

Name- Shubham Gangadhar Kurhade.  
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**Date of Birth: 25/05/1999**

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