

YASH GAWALI

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EDUCATION

KLS Gogte Institute of Technology – Belgaum <i>Bachelor of Mechanical Engineering</i>	<i>Expected Graduation-2026</i>
SOU. Vijayadevi Yadav English Medium School, Kolhapur <i>CBSE, Pre – University</i>	<i>2020-2022</i>
Hon. Sharad Pawar International School, Kalwan <i>CBSE, Schooling</i>	<i>2018-2020</i>

TECHNICAL SKILLS AND CERTIFICATIONS

Software Tools	Practical Skills	Certifications
• AutoCAD	• 3D Printing and 3D Scanning	• CAD and 3D Printing
• Autodesk Fusion 360	• Integration of Raspberry Pi	• GenAI-Powered Data Analytics Job Simulation
• Catia	• DfAM	• AWS Solutions Architecture Job Simulation
• ANSYS	• Generative Design	• Robotics

INTERNSHIP EXPERIENCE

RK Engineering Works (*Mechanical engineering intern*)

- Gained hands-on experience in material selection, conceptual design, and inventory management for food-processing equipment.

PROJECTS

Technological Modernization of FDM 3D Printing using IoT (ongoing)	<i>Jun 2025</i>
• Developed an IoT-enabled surveillance and auto-ejection system for FDM 3D printers, addressing critical failure modes and enhancing workflow efficiency, with potential for patentable innovation.	
An analysis of the calorific value of petrol using a bomb calorimeter	<i>May 2025</i>
• Performed calorimetric evaluation of petrol from different sources to assess variations in energy content and their potential effect on vehicle efficiency and combustion quality.	
Comparative Study of Heat Treatment on Mild Steel, EN-19 & EN-31	<i>Jan 2025</i>
• Conducted heat treatment (quenching, normalizing, tempering) at ~800 °C and analyzed hardness and microstructure, with EN-31 showing the highest improvement from alloy composition and grain refinement.	
Performance & Design Analysis of EV Battery Systems	<i>Jan 2023</i>
• Compared Li-ion, lead-acid, and NiMH batteries, highlighting Li-ion's efficiency, and evaluated next-gen EV technologies (solid-state, Li-S, Na-ion and Zn-air) in terms of energy density, cycle life, and cost-effectiveness.	

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

National Level Football (2019) – Represented team at National-level Football Competition.

University Blue – Selected to represent VTU at the upcoming Inter-University Football Championship.

Workshop – Next-Gen Materials and Advanced Aerospace Composite Systems Training.

Workshop – Novel Materials and Composite Technologies in Automotive and Aerospace.