

YASH GAWALI

+91 9371761555 | YASHGAVALI1555@GMAIL.COM | [LINKEDIN URL](#) | BELGAUM, KARNATAKA

EDUCATION

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

TECHNICAL SKILLS AND CERTIFICATIONS

Software Tools

- AutoCAD
- Autodesk Fusion 360
- Catia
- ANSYS

Practical Skills

- 3D Printing and 3D Scanning
- Integration of Raspberry Pi
- DfAM
- Generative Design

Certifications

- CAD and 3D Printing
- GenAI-Powered Data Analytics Job Simulation
- AWS Solutions Architecture Job Simulation
- 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) • 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.	Jun 2025
An analysis of the calorific value of petrol using a bomb calorimeter • Performed calorimetric evaluation of petrol from different sources to assess variations in energy content and their potential effect on vehicle efficiency and combustion quality.	May 2025
Comparative Study of Heat Treatment on Mild Steel, EN-19 & EN-31 • 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.	Jan 2025
Performance & Design Analysis of EV Battery Systems • 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.	Jan 2023

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.