KOUSTUBH PRASHANT KHADILKAR

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INTERNSHIP

PLC PROGRAMMING
Y U TECHNOLOGY PVT LTD

📅 JULY 2022 – AUG 2022   📍 SANGLI

- Gained hands-on experience in operating and understanding Programmable Logic Controller (PLC) Supervisory Control And Data Acquisition (SCADA) .
- Assisted in the programming, calibration, and maintenance of PLC'S used in automation. Learned about industrial automation systems, control interfaces, and safety protocols.

CNC MACHINES
MAHABAL METALS

📅 JULY 2022 – AUG 2022   📍 SANGLI

- Observed and understood the working of CNC machines and industrial robotic arms in a real manufacturing environment.
- Assisted technicians in routine maintenance, calibration checks, and basic troubleshooting of automated equipment.

PROJECTS

THE BLACK BOX LOGIC
KIT College of Engineering, Kolhapur

- Designed and implemented a Black Box system for motorcycles using ESP32, GPS, GSM, and IoT for real-time vehicle tracking, accident analysis, and theft prevention.
- Integrated remote ignition control and fire detection, enabling emergency engine shutdown and instant alerts via the Blynk IoT platform.
- Developed a low-cost, scalable safety solution addressing gaps in vehicle monitoring for two-wheelers in developing regions.

IOT - BASED SMART HOME AUTOMATION
KIT College of Engineering, Kolhapur

- Developed a smart home automation system using IOT-based sensors for real-time monitoring of environmental hazards (gas leaks, fire) and appliance automation.
- Collected and displayed sensor data on a cloud platform within a local network for live safety status visualization.
- Gained practical experience in IOT hardware integration, sensor interfacing, and cloud-based data visualization.

PUBLICATIONS

IoT-Based Smart Home Automation
International Journal of Research Publication and Reviews (IJRPR)

📍 Vol 6, Issue 2, 2025 [View Paper]

MY LIFE PHILOSOPHY

"Lead with integrity, learn with curiosity and grow with every challenge."

MOST PROUD OF

🏆 **RUNNER UP WINNER IN ZONAL BASKETBALL**
Captain of the college basketball team secured 2nd place in Zonal Basketball Tournament 2023.

🏆 **RUNNER UP WINNER ON PBL DAY AT KIT**
Runner-up Prize at KIT PBL Day for the project Motor Control Timer at KIT College of Engineering, Kolhapur.

💗 **1st ranker in Micro-controller**
Ranked top in Microcontroller subject, scoring 69/70.

STRENGTHS

Hard-working   Team Leadership
Creative Problem Solving

C,C++   Assembly & Embedded in c   Python
Ladder PROGRAMMING   Embedded in c
Verilog and VHDL   IOT

SOFTWARES

MATLAB   KEIL   XILLINX
ABB   PROTEUS   ARDUINO IDE

LANGUAGES

ENGLISH   HINDI   MARATHI

EDUCATION

BTECH. Electronics and Telecommunation
KIT COLLEGE OF ENGINEERING,KOLHAPUR

📅 Sept 2023 – May 2026

CGPA : 8.50

Diploma IN Industrial Electronics
WALCHAND COLLEGE OF ENGINEERING

📅 2021 – MAY 2023

MARKS : 87.66