Prasad Gaikwad

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EDUCATION

KIT'S COLLEGE OF ENGINEERING

B.Tech in Electronics & Telecommunication

2023 - 2026 | Kolhapur, Maharashtra
CGPA: 9.12/10

GOVERNMENT POLYTECHNIC NASHIK

Diploma in Electronics & Telecommunication

2020 - 2023 | Nashik, Maharashtra
Percentage: 84.95%

MAHATMA PHULE HIGH SCHOOL

2019-2020 | Dugaon, Chandwad, Nashik
Percentage: 89%

SKILLS

Programming Languages:
Basic Embedded C , C ,C++(OOP's)
Microcontrollers:
STM32 NUCLEOF411RE , Pic16f877A , 8051 , ESP 32, Arduino
Design:
Analog and Digital Circuit Design
PCB Design
PCBA
Embedded System Design
Hardware System Design
Circuit Testing
BMS
Tools:
STM32CubeIDE , MPLAB X IDE , Keil uVision5 , DIP-TRACE , Eagle , KiCad , Arduino ide , Proteus 8 Professional

ACHIEVEMENTS

First Prize in State Level DIPEX Project Competition 2023-2024
First Prize in Project Based Learning (PBL) successfully conducted One day hands on workshop on "Proteus/ORCAD Simulation and PCB design"

ACADMIC EXPERIENCE

Teaching Head of KIT Robotics Club
Head of Electronics Association Event Management
Idea Lab KIT Ambassador in 2023-2025

EXPERIENCE

MEKERS BENCH NASHIK   Internship June 2023 – July 2023 | On-Site

- Contributed to the design and manufacturing of PCBs.
- Gained experience with microcontrollers in industry.
- Developed a real-time application: Solar Panel Cleaning Bot.
- Skills: PCB Design and Manufacturing,PCBA, Circuit Design, Circuit Testing, Component Assembly.

WAVENXD TECHNOLOGIES PVT. LTD   Internship April 2024 – Present | On-Site

- Working on Vibration Sensor Project
- Working on STM32 NUCLEOF411RE Microcontroller
- Understanding Analog and Digital Circuit Design and Schematics.
- Electronics Hardware Testing..
- Skills: Embedded C , Reserch and Development, PCB Design, PCBA, Circuit Testing, Patent Analysis, Circuit Assembly.

PROJECTS

"AGRIBREEZE"

- PIC16f877A Microcontroller is Used.
- Hot Air Drying: Uses controlled hot air to efficiently dry grains, reducing moisture content.
- Multi-Sensor System: Temperature and humidity sensors ensure precise control and optimal drying conditions.

"IN-FERO SHIELD SMART BATTERY MANAGEMENT SYSTEM"

- Battery Health Monitoring and Regulation.
- IoT-based Cloud Integration.
- Diverse Applications : - electric vehicles, hospitals, telecom hubs etc.

"GREEN POWER VEHICLE"

- Smart BMS, Auto Cooling System, Solar Charging System.
- Dual-battery system with automatic switching for extended range.
- MPPT device for boosting solar energy efficiency.
- Monitored the system using a BMS module for real-time data.

"LOW-COST ACOUSTIC IMPEDANCE TUBE."

- Low-cost impedance tube for sound testing.
- Uses PVC pipes, microphones, and Digtal Data processing system.
- Measures sound absorption and transmission loss define the Quality of the Material.

CERTIFICATIONS

Embedded Virtual Internship
Complete Arduino Course
Participated State Level MSBTE Project Compitiation