

Prasad Gaikwad

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EDUCATION

KIT'S COLLEGE OF ENGINEERING

B.TECH IN ELECTRONICS & TELECOMMUNICATION

2023 - 2026 | Kolhapur, Maharashtra
CGPA: 9.09/10

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 and C++

Microcontrollers:

STM32 NUCLEOF411RE, Pic16f877A, 8051, ESP 32, Arduino

Design Skills:

Analog and Digital Circuit Design

PCB Design

PCBA

Embedded System Design

Hardware System Design

Circuit Testing

BMS

Tools:

STM32CubeIDE, MPLAB X IDE, ORCAD

Capture, Keil uVision5, DIP-TRACE,

Eagle, KiCad, Arduino ide, Proteus 8

Professional

COURSEWORK

Microcontroller

Electronics Instrumentation

Analog Electronics

ACHIEVEMENTS

Teaching Head of KIT Robotics Club

First Prize in State Level DIPEX Project

Competition 2023-2024

First Prize in Project Based Learning (PBL)

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, Research 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.
- Energy Efficient: Automated adjustments optimize energy use while maintaining grain quality.

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.

IN-FERO SHIELD SMART BATTERY MANAGEMENT SYSTEM

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

CERTIFICATIONS

- Embedded Virtual Internship.
- Complete Arduino Course.
- Participated State Level MSBTE Project Competition
- Participated State Level Anveshna Project Competition