

# Pradnya Tanaji Patil

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## SUMMARY

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Recent **B.Tech graduate** in Electronics & TeleCommunication Engineering with hands-on experience in **embedded systems**, **Arduino programming**, and **Python**. Demonstrated expertise through multiple internships and academic projects focused on safety systems and automation. Passionate about applying technical skills to solve real-world problems and eager to contribute to innovative engineering solutions.

## EDUCATION

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**Shree Siddheshwar Women's College of Engineering**  
*Bachelor of Technology (Electronic & TeleCommunication)*  
• CGPA: 65.40% under DBATU

Solapur, MH  
August 2022 – June 2025

**Shree Siddheshwar Women's Polytechnic**  
*Diploma in Engineering*  
• Percentage: 71.41% under MSBTE

Solapur, MH  
July 2019 – June 2022

**Gandhi Natha Rangji Vidyalaya**  
*SSC - Maharashtra State Board*  
• Percentage: 75.60%

Solapur, MH  
2018 – 2019

## TECHNICAL SKILLS

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**Programming Languages:** Python, C Programming, HTML, CNC Programming  
**Development Tools:** Arduino IDE, MS Excel, PLC  
**Hardware Skills:** Embedded systems, Arduino  
**Soft Skills:** Problem-Solving, Adaptability, Presentation Skills

## INTERNSHIPS & TRAINING

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**Graduate Trainee Engineer**  
*Bajaj Engineering Skill Training CSR Program (BEST)*

Jan 2025 - June 2025  
Pune, MH

- Participated in comprehensive engineering skill development program focusing on industry best practices.
- Gained exposure to manufacturing processes and quality control systems.
- Completed training modules on Total Productive Maintenance (TPM) methodologies.

**Trainee Engineer**  
*TechnoHacks EduTech*

July 2024  
Solapur, MH

- Worked on technical projects involving software development and system design.
- Collaborated with team members on educational technology solutions.
- Enhanced problem-solving skills through hands-on project experience.

**Trainee Engineer**  
*Spoken Tutorial, IIT Bombay*

2021  
Solapur, MH

- Completed structured learning modules on various technical topics.
- Developed foundational skills in programming and system design.
- Participated in online learning initiatives and skill assessments.

## ACADEMIC PROJECTS

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### **Service Robot Controlled by Google Assistant and Arduino** | *Arduino, C++, Ultrasonic Sensors*

- Built an Arduino-based robot capable of autonomous movement.
- Integrated ultrasonic sensor for real-time object detection.
- Created a self-navigating robot using Arduino and ultrasonic sensors.
- Assembled hardware including motors, wheels, and driver module.
- Coded motor control and distance sensing algorithms in C++.

### **Night Patrolling Device with Arduino** | *Arduino, C Programming, Embedded Systems*

- Designed and developed a comprehensive night patrolling system to enhance safety and security during night-time hours.
- Implemented motion detection technology to identify unauthorized movement or intrusions in monitored areas.
- Integrated alarm and buzzer systems that activate automatically when motion is detected.
- Developed notification system capable of sending alerts and making calls to owners or security personnel.
- Utilized Arduino micro-controller for system control and sensor integration.
- Tested and validated system performance under various environmental conditions.

### **Alcohol Detector and Engine Locking System** | *Arduino, MQ-3 Sensor, Embedded Systems*

- Developed an innovative vehicle safety mechanism that prevents engine start if the driver is intoxicated.
- Integrated MQ-3 alcohol sensor sensitive to alcohol vapors in breath for accurate detection.
- Programmed Arduino to process analog signals from alcohol sensor based on concentration levels.
- Implemented relay-based engine locking system that activates when alcohol levels exceed safety threshold.
- Designed user-friendly interface with clear indicators for system status and alerts.
- Conducted extensive testing to ensure reliable operation and safety compliance.

## CERTIFICATIONS

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- **PCB and Drone Designing** - Aprtron Tech
- **Python Fundamentals** - Great Learning
- **Manufacturing System Program on TPM** - Bajaj
- **Workshop on Metaverse** - Technology Workshop
- **Soft Skills Course** - NPTEL
- **Employability Skill Training Program** - Naandi Foundation

## ACHIEVEMENTS & ACTIVITIES

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**Competitions:** State Level Quiz Competition on Technical MCQ

**Hobbies:** Reading, Writing, Learning Languages, Traveling

## LANGUAGES

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**Human Languages:** English, Marathi, Hindi, German (A1 Level)