

Chetana Patil

Nashik, Maharashtra | 9767629255 | chetanapatil754@gmail.com |

Profile Summary

Electronics and Telecommunication Engineering graduate with hands-on experience in automation, PLC systems, and embedded systems. Skilled in designing, testing, and implementing communication protocols and hardware.

Education

B.Tech. - Electronics & Telecommunication Engineering, K.K. Wagh Institute of Engineering, Nashik (2026) | CGPA: 6.15/10

Higher Secondary Certificate (HSC), Science – V.N. Patil Jr. College, Igatpuri (2021) | 84.83%

Secondary School Certificate (SSC), St. Lawrence High School, Nashik (2019) | 81.40%

Technical skills

- Automation: PLC (Ladder Logic), SCADA, HMI, VFD, Pneumatics
- Embedded & MCUs: ESP32, ESP8266, STM32F103, ATmega328P, PIC16F877A
- Communication Protocols: UART, I²C, Zigbee, RF, IIoT
- PCB Designing & Development
- Tools: STM32CubeIDE, Arduino IDE, MATLAB, Proteus, EasyEDA

Projects

- Autonomous Vehicle Simulation – Simulated an autonomous vehicle system with real-time navigation and obstacle detection using ultrasonic sensors.
- Wildlife Monitoring and Forest survey robot – Developed a robotic system for wildlife conservation, habitat monitoring, and anti-poaching efforts.
- Power Theft Reduction system – Designed a wireless system using Zigbee to detect and prevent unauthorized electricity usage.
- Piezoelectric Shoes – Researched and developed hardware for energy harvesting through piezoelectric effect.
- Robotic Arm with IIoT Integration – Built a robotic arm with IIoT integration for remote control, real-time monitoring, and cloud-based data logging.
- Remote Controlled Transmitter and Receiver for UAV's – wireless control system enabling stable, long-range communication between a ground transmitter and UAV for precise navigation and data transmission.

Internship

- CEAT Tyres' Manufacturing Plant, Nashik (Jan-Feb 2024).
Assisted Electrical Dept. Manager in observing plant operations and developing circuitry.

Trainings/Workshops

- 3-Month Industrial Automation Training (2024)- Autotech, Nashik .
Completed training in PLC, SCADA, HMI, VFD & Pneumatics.
- Mahindra Pride soft skills Training- by Naandi Foundation.
- Hands on PCB Design Workshop – by Mr. Pravinkumar Ambekar.