

Chetana Patil

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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. Seeking a Graduate Engineer Trainee role to apply technical expertise and problem-solving skills in real-world industrial solutions.

Technical Skills

- PLC Programming (Ladder Logic), SCADA, HMI, VFD, Pneumatics
- Embedded Systems, Microcontrollers (ESP32, Arduino)
- Communication Protocols: UART, I²C, Zigbee
- PCB Designing & Development
- IIoT and Wireless Communication

Projects

- Robotic Arm with IIoT Integration – Built a robotic arm with IIoT integration for remote control, real-time monitoring, and cloud-based data logging.
- Autonomous Vehicle Simulation – Simulated an autonomous vehicle system with real-time navigation and obstacle detection using ultrasonic sensors.
- Wildlife Monitoring and Anti-Poaching Robot – Developed a robotic system for wildlife conservation, habitat monitoring, and anti-poaching efforts.
- Power Theft Reduction – 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.
- Remote Controlled Transmitter and Receiver – Designed and implemented transmitter-receiver system using microcontrollers and communication protocols.

Internship

CEAT Tyres Manufacturing Plant, Nashik (Jan-Feb 2024)

- Assisted Electrical Dept. Manager in observing plant operations and developing circuitry.
- Gained practical knowledge of ladder diagrams and PLC programming.
- Worked on industrial automation exposure with SCADA, HMI, and VFD systems.

Training

Autotech, Nashik – 3-Month Industrial Automation Training (2024)
Completed training in PLC, SCADA, HMI, VFD & Pneumatics.

Education

B.Tech. Electronics & Telecommunication Engineering, K.K. Wagh Institute of Engineering,
Nashik (2021–Present)
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%

Achievements

- Secured 2nd prize in F.E. E&TC Departmental Project Competition (2022).
- Participated in district-level Sepak Takraw competition (2018).
- Contributed to community initiatives like tree plantation drives.