

Tanu Tomar

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Education

VIT Bhopal University

BTech in ECE (AI and Cybernetics)

Cumulative GPA: 9.27/10

Bhopal, Madhya Pradesh

Expected June 2026

Govt. Excellence Higher Secondary school

12th Standard

MP Board Cumulative percentage: 93.4%

Vidisha, Madhya Pradesh

March 2022

Govt. Excellence Higher Secondary school

10th Standard

MP Board Cumulative percentage: 97.7%

Vidisha, Madhya Pradesh

March 2020

Technical Skills

Programming Languages: C++, C

Tools: LTspice, Tinkercad, Keil, Proteus

Coursework: Embedded Systems, IoT, Microcontrollers, Robotics

Projects

Smart Parking System – ParkEase

Sept 2024–March 2025

- Description: Designed a smart parking system using CCTV, Raspberry Pi, and OpenCV for real-time space detection, live availability tracking, and pre-booking through a mobile app.
- Technologies: OpenCV, Python., Camera Module, Raspberry Pi
- Role: Sensor fusion and Integration
- Link: <https://github.com/tomartanu/ParkEase-Smart-Parking-System.git>

Sign Language to speech conversion System

Feb 2024 – May 2024

- Description: Built a system that converts sign language into text and speech to enable easier communication between deaf/mute individuals and non-sign language users.
- Technologies: Arduino IDE, C, Flex Sensor, HC-05
- Role: Hardware integration and Embedded logic design
- Link: <https://github.com/tomartanu/Sign-language-to-speech-convergence.git>

Plant Health Monitoring System

Aug 2023 – Nov 2023

- Description: Developed an automated plant monitoring system providing real-time insights for optimized crop care in smart agriculture.
- Technology: C, Arduino IDE, Soil Moisture Sensor, DHT11
- Role: Programming and Sensor integration
- Link: <https://github.com/tomartanu/Plant-Health-Monitoring-System.git>

Experience

Embedded System Design Internship-Maven Silicon

Jan 2025–March 2025

- Developed embedded firmware and hardware interfacing for a home automation project.
- Gained hands-on experience in microcontroller-based system design and embedded programming.
- Link- <https://drive.google.com/file/d/1t-McyhkqriUOMuVRVBbFGETFdGaP1slq/view?usp=sharing>

Extracurricular Activities and Achievements

- Awarded the Dreamed **STAR** Scholarship from VIT Bhopal.
- Secured first position in district merit in class 12th and awarded a Laptop by the Honorable District Collector.
- Participated in Viksit Bharat Young Leaders Dialogue (Dec 2024) and Google Girl Hackathon (Feb 2025).
- Volunteered at attending the ANRF-sponsored National Symposium on Innovations in Intelligent Systems at (Feb 2024).
- Worked as a team member in the ROBOX event at AdvITYa 24.

Additional Information

Languages: English, Hindi

Hobbies: Playing Badminton, Dancing