

GADIGEPPA TEGGINAMANI

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EDUCATION

Sri Krishna Institute of Technology, Bangalore

Bengaluru, Karnataka

Bachelor of Engineering in Electronics and Communications Engineering, VTU Belagavi

Dec 2022 – Jun 2026

- Relevant Coursework: Embedded Systems, FPGA Design, Digital Electronics, Communication Systems

TECHNICAL PROJECTS

I2C Protocol Implementation on FPGA | Verilog, FPGA, Hardware Design

2025

- Designed and simulated I2C communication protocol on FPGA using Verilog for hardware-level understanding
- Verified protocol functionality through comprehensive testbenches and timing analysis

Real-Time Weather Monitoring System | ESP32-C3, IoT, Cloud

Jul 2025

- Engineered industry-level weather station using ESP32-C3 with temperature, humidity, and pressure sensors
- Implemented wireless data transmission and cloud connectivity for remote monitoring and analytics

Rural Empowerment Web Platform | Web Development, Social Impact

May 2025

- Developed full-stack web platform connecting Tier-3 village youth with higher education opportunities
- Integrated government scheme information and educational resources for rural accessibility

Automatic Smart Parking Gate | Arduino UNO, IR Sensors, Automation

2023

- Built automated parking toll system using Arduino UNO and IR sensors for vehicle detection

EXPERIENCE & TRAINING

ROBO AI Industrial Training Program

Oct 2025 – Nov 2025

Trainee - Robotics & Artificial Intelligence

45-Day Intensive Program

- Completed hands-on training in robotics, AI algorithms, and autonomous systems development
- Built embedded systems integrating sensors, actuators, and microcontrollers for real-world applications
- Developed robot programming skills including pathfinding, obstacle avoidance, and sensor fusion

National Institute of Electronics & IT (NIELIT), Calicut

May 2025

Embedded Systems Training - Chips to Startup Program

Government of India

- Completed "Embedded for Beginners" certification covering microcontroller architecture and firmware
- Mastered embedded C programming, peripheral interfacing, and real-time operating system concepts

ACHIEVEMENTS & COMPETITION SUCCESS

HackVyuha 2025: Selected among top finalists in state-level hackathon for innovative solution

Top 20 - e-Yantra Robotics Competition (IIT Bombay) 2024-25: Ranked 17th among 760 teams with autonomous robot implementation

Hardware Hackathon 1.0 (Aug 2025): Built functional hardware prototype

Participant - Robothon 2K25: Competed in robotics competition demonstrating technical skills

Manthan 2025 - Innovation Competition: Represented SKIT at Federation of Industry event with comprehensive business and technical proposal

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Embedded C, Verilog

Hardware & Platforms: ESP32, Arduino, FPGA, ARM Microcontrollers, PlatformIO, IoT Devices

Embedded Systems: Firmware Development, I2C/SPI/UART, Sensor Integration, Real-Time Systems

Tools & Technologies: Git/GitHub, Linux, PCB Design, Digital Hardware Design, Cloud IoT

Soft Skills: Problem Solving, Team Leadership, Technical Communication, Rapid Prototyping

ADDITIONAL INFORMATION

Languages: English, Kannada, Hindi

Interests: Embedded Systems Innovation, Robotics, IoT, Open-Source Hardware