

# GADIGEPPA TEGGINAMANI

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## EDUCATION

### Sri Krishna Institute of Technology, Bangalore

Bachelor of Engineering in Electronics and Communications Engineering, VTU Belagavi

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

Bengaluru, Karnataka

Dec 2022 – Jun 2026

## 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