

Gobinath L P

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Objective

An Electronics and Communication Engineering undergraduate with hands-on experience in embedded systems, microcontrollers, circuit simulation, and programming. Actively seeking internships or entry-level roles in embedded systems, electronics, or core engineering domains.

Education

HSE +2

2023 – 2024

Sree Saravana Niketan Matriculation Higher Secondary School

B.E. Electronics and Communication Engineering

2024 – 2028

Velalar College of Engineering and Technology, Tamil Nadu

Technical Skills

- **Programming Languages:** C, C++, Python, Java
- **Web Technologies:** HTML, CSS, JavaScript
- **Embedded Systems:** Arduino, ESP32, Microcontrollers, Sensors
- **EDA & Tools:** LTspice, Cadence, Git, VS Code
- **Communication Protocols:** CAN Bus, UART, I2C, SPI

Projects

HardenX – Unified Cross-Platform System Hardening and Compliance Tool

- Designed an automated cross-platform system hardening and compliance tool that supports both Windows and Linux operating systems.
- Establishes security baselines, detects misconfigurations, and allows for safe, auditable configuration changes.

LoadPulse AI – Real-Time Load Matching System

- Designed an AI-powered platform to match empty trucks with nearby loads in real time.
- Reduced fuel waste, logistics costs, and CO₂ emissions through optimized load utilization.

CAN Bus - Simulation of CAN Protocol

- Simulated CAN protocol between two Arduino UNO boards to transmit Humidity and temperature data.
- Learned to use two MCP2515 CAN controllers and how this works in automotives.

Certifications

- TNSKILLS – Cloud Computing (2025)
- Smart India Hackathon Participant
- ArmCortex M4 Masterclass
- RTL Design & Verification Workshop

Achievements & Activities

- Participated in multiple technical events and hackathons.
- Preparing for GATE (ECE) and IELTS Academic.
- IEEE Member

Interests

Embedded Systems, Electronics Engineering, IoT, Communication Engineering

Declaration

I hereby declare that the above information is true and correct to the best of my knowledge.

Place: Tamil Nadu

Signature: Gobinath L P