

# Gobinath L P

Erode, Tamil Nadu, India

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## Objective

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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

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| <b>HSE +2</b><br>Sree Saravana Niketan Matriculation Higher Secondary School                                       | 2023 – 2024 |
| <b>B.E. Electronics and Communication Engineering</b><br>Velalar College of Engineering and Technology, Tamil Nadu | 2024 – 2028 |

## Technical Skills

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- **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

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### 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 CO<sub>2</sub> 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 automobiles.

## Certifications

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

## Achievements & Activities

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

## Interests

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Embedded Systems, Electronics Engineering, IoT, Communication Engineering

## Declaration

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

**Place:** Tamil Nadu

**Signature:** Gobinath L P