

# Thamaraimanalan M

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## EDUCATION

### Government College of Technology

*Bachelor of Electronics and Communication Engineering*

*Cumulative GPA: 7.9 (up to Semester 6)*

Coimbatore, IN

2022 - 2026

## EXPERIENCE

### Project Intern

Feb 2025 – Jun 2025

*FOSSEE, IIT Bombay*

[Report link](#)

- Developed a cross-platform GUI for OpenModelica using Qt Framework.
- Collaborated with the FOSSEE team to improve OpenModelica's usability and performance.
- Enhanced the Qt/Python GUI's functionality and performance for OpenModelica's specific simulation and model selection processes.

## PROJECTS

### Linux Device Drivers [GitHub](#)

Aug 2025 – Present

- Currently developing and learning Linux device driver modules.

### Universal Android Debloater [GitHub](#)

Jan 2025 – Present

- Cross-platform GUI written in Qt and C++ using ADB to debloat non-rooted android devices. Improve your privacy, the security and battery life of your device.

### WifiJammer [GitHub](#)

Aug 2025 – Present

- Built a simple Wi-Fi jamming Linux application using the Qt Framework and the aircrack-ng suite.

### Smart Traffic Management [GitHub](#)

Oct 2024 – April 2025

- Developed a prototype system for traffic junctions to detect emergency vehicles and prioritize their movement.
- Utilized deep learning (YOLO) for ambulance detection on Hailo 8L and automated signal control using Raspberry Pi and sensor integration.

### Project.Eye [GitHub](#)

Feb 2025 – Present

- Built an AI-powered assistive system for the visually impaired, utilizing Python, Raspberry Pi, Moondream VLM, and Piper TTS to enable real-time image capture, processing, and audio feedback via a headset.

## CERTIFICATIONS & ACHIEVEMENTS

### Qt-Athon 2024 — Global Coding Competition

*Secured 3rd place for a desktop application developed with Qt Quick (QML) and C++.*

[Check Blog](#)

### Comprehensive Embedded Systems Course by Pyjamabrah

*Currently diving deep into low level and system software.*

[Certificates](#)

### NXP AIM 2025: Regional Finalist

*Developed an autonomous mobile robot using ROS2, Gazebo, and SLAM for a robotics competition.*

[Certificate](#)

### TechForSociety Hackathon by Siemens and Nasscom foundations

*Shortlisted for innovative smart traffic management system.*

## TECHNICAL SKILLS

**Languages:** C, C++, Python, Shell Scripting, DSA (Learning)

**Operating Systems & Kernel:** Linux, Linux Kernel Development, Device Driver Development

**Frameworks & Libraries:** Qt, ROS2 (Learning), PyQt6 & PySide6

**Developer Tools:** Git, GitHub, VS Code, Qt Creator, Docker, Multipass, GDB

**Embedded Systems:** Raspberry Pi, Hailo 8L 13 TOPS

## SOFT SKILLS

- Collaborative Teamwork • Effective Communication • Project Management