CONTACT

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linkedin.com/in/vishwanath-karunanithi-087b62308

GitHub
github.com/vishwanathkarunanithi

Portfolio
vishwanathkarunanithi.github.io

TECHNICAL SKILLS

Embedded Systems

Internet of Things

Arduino and ESP32

Sensors and Microcontrollers

Artificial Intelligence and Computer Vision (Basic)

Python (Basic)

TOOLS AND PLATFORMS

Arduino IDE

MIT App Inventor

LABVIEW

Sinric Pro

GitHub

LANGUAGES

English

Tamil

VISHWANATH KARUNANITHI

Electronics and Communication Engineer

PROFILE SUMMARY

Electronics and Communication Engineering student with strong hands-on experience in embedded systems, Internet of Things, software-based systems, and artificial intelligence applications. Actively involved in real-world project development, hackathons, internships, and innovation challenges.

EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering
Velammal Institute of Technology, Chennai
2023 – 2027 (Pursuing) | CGPA: 8.47

Higher Secondary Education (CBSE)
Cauvery International School, Tiruchirapalli | 80.60%

Secondary School Education (CBSE)
Cauvery International School, Tiruchirapalli | 81.80%

MAJOR PROJECTS

Piracy Prevention and Detection
Designed a dual-layer system using IR integration and software-based detection to prevent unauthorized recording of digital content.

Structural Health Monitoring (Software)
Developed a software-based system to analyze structural parameters and assist in early fault detection.

Smart Non-Invasive Health Monitoring
Implemented a non-invasive system for continuous monitoring of vital health parameters.

Electricity Tampering Detection and Smart Energy Meter
Built an embedded IoT-based system for real-time energy monitoring and electricity theft detection.

Exam Hall Allocation System (Embedded)
Designed a microcontroller-based automated exam hall seat allocation system.

Face Detection Using Artificial Intelligence
Developed an AI-based computer vision system for real-time face detection.

ACHIEVEMENTS, INTERNSHIP AND INDUSTRY EXPOSURE

Finalist – YUKTI Innovation Challenge 2025, selected for the final stage based on innovation potential and technical feasibility.

First Prize – Inter College Project Expo for an embedded and software-based project evaluated by academic and industry professionals.

Winner – 24 Hour Hackathon at Vellore Institute of Technology, involving rapid problem solving and system implementation.

Internship – One Yes Info Tech, completed an EEPROM-based embedded project with implementation and documentation available on GitHub.

Industrial Visits to IIT Communication Laboratory and RETECH, gaining exposure to real-world engineering environments.

Three First Prizes – AMS College of Engineering across different technical events.

TN Skills Competition, selected up to Round 2, gaining insight into skill gaps and focused learning areas.

Conducted a Technical Workshop for school students on basic electronics and embedded systems.

MINI PROJECTS AND TECHNICAL ACTIVITIES

Otto Blockly Robot with mobile application-based customization, home automation using Alexa and Sinric Pro, Bluetooth-controlled LED using MIT App Inventor, and completion of all basic LABVIEW exercises.