

# VIJAYARAGAVAN SARAVANAN

Trichy, Tamil Nadu | +91 8754197055 | vijaysaravanan1609@gmail.com  
LinkedIn: linkedin.com/in/vijay-saravanan1609 | GitHub: github.com/vijay-saravanan

## CAREER OBJECTIVE

ECE graduate with hands-on experience in embedded systems, IoT, industrial automation, and electronics testing seeking opportunities in embedded systems, manufacturing, automation, or electronics engineering roles where I can contribute technically and continue developing industry expertise.

## EDUCATION

<b>B.E. — Electronics and Communication Engineering</b>	2025
Kathir College of Engineering, Anna University, Coimbatore   CGPA: 7.73   First Class	
<b>Studienkolleg — Technical Program (FSP Passed)</b>	2017
Hochschule Zittau/Görlitz, Germany   Grade: 2.6	
<b>HSC (12th Standard) 85.6%</b>	2014
SRV Boys Higher Secondary School, Rasipuram	
<b>SSLC (10th Standard) 86.4%</b>	2012
SVM Higher Secondary School, Trichy	

## TECHNICAL SKILLS

**Programming:** C, Python, OpenCV

**Microcontrollers:** Arduino, ESP32, PIC16F877A, Raspberry Pi

**Tools & Software:** MATLAB, Arduino IDE, MPLAB IDE, Git, Linux CLI, Tinkercad, Wokwi

**Other:** IoT systems, sensor integration, control panel assembly, electronics testing & QC

**Languages:** English (Professional), German (B1 — TELC certified), Tamil (Native)

## INTERNSHIP EXPERIENCE

**Electronics Intern** | *Lakshmi Electrical Control Systems (LECS)*, Coimbatore Jan – Apr 2025

- Assembled industrial control panels integrating PLCs, motors, and sensors across 10+ builds
- Performed system testing and fault diagnosis; resolved 5 wiring errors before client delivery

**Electronics Intern** | *Pricol Engineering Industries*, Coimbatore Sep – Nov 2024

- Tested and inspected 60+ automotive sensors daily; maintained zero defect pass-through on assigned batches
- Documented QC inspection reports following company quality process standards

**Embedded Systems Intern** | *Emglitz Technologies*, Coimbatore Jul 2024

- Built automation prototypes on PIC16F877A — PWM motor control and UART sensor interfacing using MPLAB IDE

**IoT Intern** | *Emglitz Technologies*, Coimbatore Jul – Aug 2023

- Developed IoT systems using Arduino and ESP32 — sensor integration and Wi-Fi-based data transmission

## PROJECTS

**Advanced Human Life Detection System** 2024

- Raspberry Pi system fusing mmWave radar, microphone & accelerometer data using FFT/DWT signal processing and Random Forest ML classifier to detect survivors in rescue scenarios
- GitHub: [github.com/vijay-saravanan/Advanced-Human-Life-Detection](https://github.com/vijay-saravanan/Advanced-Human-Life-Detection)

### **Gesture Recognition — Python & OpenCV**

2024

- Real-time hand gesture recognition system using OpenCV; deployed as PC control interface with under 80ms latency

### **Gesture-Controlled Switch — Arduino**

2023

- Arduino + APDS-9960 sensor based contactless appliance control system; demonstrated at college exhibition

---

## **ADDITIONAL INFORMATION**

Available for immediate joining | Willing to relocate across India | Open to remote opportunities