# SUMMARY

Aspiring Embedded Systems Engineer with a strong foundation in electronics, programming, and AI-powered solutions. Passionate about building efficient, real-time systems through a combination of hardware and software skills.

# CONTACT

**📞 +91 96262 34759**

**✉️** [**antonyvaslin@gmail.com**](mailto:antonyvaslin@gmail.com)

# LANGUAGES

* English, Tamil

# SKILLS

* Communication
* Critical Thinking
* Teamwork

**ACHIEVEMENTS AND RECOGNITIONS**

**Best Paper Award** – National Level Conclave, Thiagarajar College, Madurai (2025)

* Presented paper on "Exploring Spiking Neural Networks for Drowsiness Detection"

**PORTFOLIO**

**GitHub**: <https://github.com/vaslin-dotcom>

**LinkedIn**: https://www.linkedin.com/in/antony-vaslin-662342275

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## EDUCATION

### PUDUCHERRY TECHNOLOGICAL UNIVERSITY, PUDUCHERRY

**BACHELOR OF TECHNOLOGY-ELECTRONICS AND COMMUNICATIONS ENGINEERING**

CGPA-8.67

**Projects**

**Text to speech system for Visually Impaired**

* Developed an AI-powered wearable device using Raspberry Pi for real-time text detection and OCR.
* Integrated Text-to-Speech module to convert detected text into voice.
* Used OpenCV with custom OCR pipeline and optimized sensor integration.

**Drowsiness Detection using Spiking Neural Networks (SNN)**

* Built a power-efficient system for driver monitoring using image processing and SNN models.
* Focused on reducing hardware resource usage and improving model performance.

**Face Detection System using Raspberry Pi**

* Implemented a face recognition pipeline on Raspberry Pi with a lightweight CNN.
* Worked on optimizing frame processing and reducing latency.

**Other Mini Projects**

* Proximity Sensor using IR and microcontroller
* Automatic Lamp Control System

### Technical Skills

### Programming Languages: Python, C

### Tools & Platforms: MATLAB, Simulink, Verilog, Arduino, Raspberry Pi

### Frameworks: OpenCV, NumPy, OCR, TTS (Text-to-Speech)

### Domains: Embedded Systems, Digital Design, Image Processing, AI/ML

### Soft Skills: Communication, Critical Thinking, Adaptability, Teamwork

**Certifications & Workshops**

* **NPTEL**: Introduction to IoT, Python Programming
* **NIELIT Calicut**: Embedded Systems and VLSI Workshop
* **MathWorks**: Circuit Simulation, Simulink, Wireless Communication
* **ISRO/IIRS**: AI/ML for Geo Data Analysis (Online Workshop)