

# SURIYA B

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[GitHub](#)



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## Summary

Organized and dependable candidate skilled in efficiently managing multiple priorities with a positive attitude. Willing to take on added responsibilities to effectively meet team goals while ensuring accuracy in handling multiple projects.

## Internship Experience

### Yellow Raft Kinetics | Design Engineer Intern

June 2024 to Jan 2025

The automated juicer system maintains consistent juice levels across multiple cups while tracking sealed cups and total dispensed juice. Real-time data is displayed on a screen and synced to the cloud daily, ensuring accuracy and minimizing wastage.

## Education

B.E | Kongu Engineering College, Perundurai with CGPA 8.32

2022-2026

HSC | Vijay Vikas International Senior School, Erode with 84.4 percentage.

2021-2022

SSLC | Vijay Vikas International Senior School, Erode with 80.6 percentage.

2019-2020

## Language

- Tamil (Fluent) • English (Fluent) • Hindi (Fluent) • Japanese (Basics)

## Projects

**GPS location identifier :** This project interfaces the U-blox G7020 GPS module with the PIC16F877A microcontroller to obtain real-time latitude and longitude data from satellites.. This setup can be integrated into embedded systems for location tracking applications.

**IoT-Based Smart Temperature :** Monitoring The IoT-based temperature monitoring system optimizes battery room conditions by tracking and analyzing temperature variations. Real-time data transmission enables predictive alerts for critical changes.

**Autonomous Plastic Waste Segregation System:** Developed a system that automates plastic waste segregation using deep learning. Collected various plastic types and utilized their distinct temperature coefficients for accurate categorization.

## Technical Skills

**Programming:** C, Python, Embedded C

**Tools & Software:** proteus ,MPLAB XC8, Pickit2 ,ANSYS

**Communication Protocols:** UART, I2C,SPI,CAN

**Microcontrollers & processors :** 8086, STM32f103,PIC16f877a

**Operating Systems:** Linux(Red hat ,Debian ,Ubuntu)

**AI ,& ML Tools:** TensorFlow, OpenCV, NanoEdge AI Studio

## Leadership & Responsibilities

Student Assessment Coordinator – Managed student evaluations and performance tracking.

Free lancing club-Executive member – Assisted in organizing technical events and seminars.

## Soft Skills

- Attention to Detail
- Teamwork
- Analytical Thinking
- Adaptability

## Interests

- Embedded C Programming
- Microcontroller-Based System Design