

# SHASIYA T N

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## Objective

Aspiring Embedded systems Engineer seeking job opportunities to apply theoretical knowledge in real-world projects. Eager to contribute to a dynamic team, enhance practical skills, and gain hands-on experience in developing embedded systems solutions.

## Education

<b>M.Tech in Electronic Design Technology</b> <i>National Institute of Electronics and Information Technology, Calicut</i>	<b>GPA: 8.05/10</b>	2023 - Present
<b>B.Tech in Electronics and Communication Engineering,</b> <i>Universal Engineering College Vallivattom, Thrissur</i>	<b>GPA: 7.72/10</b>	2018 - 2022

## Technical Skills

- **Programming Languages:** C, Embedded C
- **Microcontrollers :** STM32, ESP32 , Arduino, Raspberry pi
- **Development Tools:** Xilinx Vivado, STM32CubeIDE, Arduino IDE
- **Communication Protocols:** UART, SPI, I2C
- **Wireless Technologies:** Wi-Fi, BLE, LoRa, RFID
- **Operating Systems:** Windows, Linux, RTOS
- **Debugging Tools:** Proficient in embedded system debugging and testing techniques.

## Projects

<b>Development of BLE Based Smart Asset Tracking System</b>	2025
<ul style="list-style-type: none"><li>• Three Raspberry Pi devices act as anchors to detect BLE signal strength from the asset tag.</li><li>• One Raspberry Pi serves as a gateway, calculates real-time location, and displays it on a GUI with signal processing and testing functionality.</li></ul>	
<b>LoRa Based Wireless Weather Monitoring System</b>	2024
<ul style="list-style-type: none"><li>• ESP32 on the LoRa transmitter side collects environmental data using sensors.</li><li>• Arduino Uno on the receiver side receives the data and sends it to the cloud for remote monitoring.</li></ul>	
<b>Smart Traffic Light Scheduling Using Image and Video Processing</b>	2022
<ul style="list-style-type: none"><li>• This project uses Arduino Uno and OpenCV to monitor vehicle density and adjust traffic signal timings in real-time to reduce road congestion.</li></ul>	

## Certificates

<b>Learning Course of C programming</b> C programming Course by Bharath Acharya Education	2024
<b>Plant training</b> <i>Doordarshan kendra Thrissur, Kerala</i>	2022
<b>Robotics design and sensor interfacing</b> <i>Keltron Thrissur</i>	2018