

Obuliraj A N S

B.E. Electronics & Communication Engineering Student
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Objective

Electronics and Communication Engineering student with hands-on experience in embedded systems, IoT, and circuit design. Seeking an opportunity to apply technical and analytical skills in real-world industrial projects, contribute to innovative solutions, and gain practical exposure to product development and testing.

Education

B.E. Electronics & Communication Engineering	2023–Present
Government College of Technology, Coimbatore, Tamil Nadu	CGPA: 7.9/10
Higher Secondary (12th Grade)	2021
K.V.M.H.S.S., Erode, Tamil Nadu	95%
Secondary (10th Grade)	2019
K.V.M.H.S.S., Erode, Tamil Nadu	93%

Technical Expertise

- Embedded Systems : C programming, STM32, Arduino, ESP32
- Circuit Design : Schematic, PCB layout, Cadence
- IoT Development : LoRa, MQTT, Blynk, Cloud Integration
- Simulation Tools : MATLAB, Proteus, NetSim
- Programming Languages: C, Java, Python, HTML5, CSS3, JavaScript (Node.js)

Key Projects

S.O.L.V.E.: Sensor-based Obstacle-aware Line-follower Vehicle	2025
<ul style="list-style-type: none">• Autonomous robot using IR sensors and ultrasonic for navigation.• Controlled by NodeMCU and Arduino with MPU6050 and LCD.• Includes self-balancing using servo and regulated power system.	
Smart Irrigation System (STM32)	2024
<ul style="list-style-type: none">• Automatic irrigation using soil moisture sensing and relay control.• Features safety timeout, UART debug, and calibrated ADC readings.	
Modernized Retro Digger (Web)	2024
<ul style="list-style-type: none">• Recreated classic Digger using HTML5 Canvas and modular JavaScript.• Emphasized maintainable code structure, performance optimizations.	

Achievements & Leadership

- Mr. Youth Award 2025 — Technical Leadership
- Mr. BIAS Award 2024 — Academic Excellence
- Treasurer, Y's Service Club of GCT YOUTH (2024–Present)

Certifications

- 3-day Workshop on Cadence
- NPTEL: Programming in JAVA , Data Base Management System

Interests

Embedded Systems • IoT • PCB Design • Motor Control • Industrial Automation

Soft Skills

Problem Solving • Teamwork • Adaptability • Leadership • Time Management