

# YOGESH M

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## OBJECTIVE

ELECTRONICS AND COMMUNICATION ENGINEERING GRADUATE WITH A STRONG FOUNDATION IN EMBEDDED SYSTEMS, IoT, AND WEB APPLICATION DEVELOPMENT. PASSIONATE ABOUT BUILDING INNOVATIVE AND EFFICIENT SOLUTIONS TO ENHANCE RESOURCE OPTIMIZATION AND SUSTAINABILITY. SEEKING AN OPPORTUNITY TO APPLY TECHNICAL AND PROBLEM-SOLVING SKILLS IN A DYNAMIC ENVIRONMENT.

## CERTIFICATIONS

- AWS Cloud Practitioner [Validation id :1571bcf52a364280b7a3473b2b45872a]

## ACCOMPLISHMENTS

- Won Second prize in **30 hour hackathon** conducted by Kongu engineering college, Perundurai.

## LEADERSHIP QUALITY

Placement coordinator

## PROJECT PRESENTATIONS

### VOICE-CONTROLLED AUTONOMOUS ROBOT FOR REMOTE OPERATIONS

Developed a voice-controlled robot with autonomous navigation and obstacle detection in a 30-hour hackathon at Kongu Engineering College, successfully integrating voice recognition and sensors to enhance user interaction and navigation capabilities.

### PRECISION DELTA ARM FOR WEED REMOVAL IN TURMERIC FIELDS

Developed an automated weed control system using delta robots and image processing on Raspberry Pi for precise mechanical weeding and targeted herbicide or fertilizer application, reducing labor, herbicide usage, and environmental impact while enhancing agricultural efficiency.

### AUTOMATED DEPARTMENT MONITORING SYSTEM WITH GUI

Developed an IoT-based system using ESP32 to monitor and control energy and water usage, featuring a Python GUI dashboard for real-time monitoring, alerts, and remote control, along with automated water cut-off and energy-saving mechanisms.

**Technical Skills for projects:** Embedded Systems, IoT, Robotics, Image Processing, Voice Recognition, Python GUI, Sensor Integration, Autonomous Navigation, Energy & Water Management.

## PAPERPRESENTATIONS

- Advancement of electromyography on Kurukshetra at ANNA University, Chennai
- Sports Technology at Kongu Engineering College.
- Advancement of electromyography on Folded Horizon at Sri Krishna College, Coimbatore

## TECHNICAL SKILLS

- Embedded Systems & IoT:** Circuit Design, Embedded Software, PCB Design, Microcontrollers, Digital Logic Design
- Programming:** Embedded C, Python, Java, JavaScript, MATLAB, Verilog HDL, Assembly Language
- Software & Tools:** ModelSim, Proteus, Arduino IDE, PSpice, PICkit2, MATLAB & Simulink, AutoCAD, SolidWorks
- Development & Platforms:** GUI Development, Linux, Git, Microsoft Office, LaTeX (Overleaf)
- Soft Skills:** Strategic Planning, Teamwork, Problem-Solving, Critical Thinking, Time Management, Learning Agility

## EDUCATION

### **KONGU ENGINEERING COLLEGE**

*Erode, India*

**Bachelor of Engineering in Electronics and Communication Engineering**

*Sep 2022 - May 2026*

• CGPA: **8.64** /10 (As of 4th Semester)

Core Subject Area: Communication, Digital Signal Processing, Microprocessors and Microcontrollers, Control Systems, Analog and Digital Circuits, and VLSI.

### **VIVEGA MATRIC HR SEC SCHOOL**

*Viralimalai, India*

**Higher Secondary Education (HSC)**     **99.4**

**Secondary School Education (SSLC)**   **89.6**