Guru Sakthi S
Electronics and Communication Engineering

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PROFESSIONAL SUMMARY

Aspiring innovative developer and visionary entrepreneur, combining technical expertise, leadership, and problem-solving ability to build impactful technology in Embedded Systems and IoT.

EDUCATION

Kongu Engineering College   *2023–2027*
Bachelor of Engineering – Electronics & Communication   **CGPA: 9.04**

Bharathi Vidya Bhavan Hr. Sec. School   *2016–2023*
HSLC & HSC – Tamil Nadu State Board   **Percentage: 85.33**

SKILLS

Programming: C, C++, Java, Python
Full-Stack & Apps: MERN Stack, Flutter, Web Deployment
Embedded & IoT: PIC, ESP32, Raspberry Pi GPIO, Sensors, Python Automation
OS & Tools: Linux, Shell Scripting, Git & GitHub
Soft Skills: Debugging, Documentation, Team Collaboration

PROJECTS

- **Indian Currency Denomination Identification Model**   *ML / CV*
  Developed a machine learning model capable of accurately identifying Indian currency notes with high precision.

- **Hand Sign Recognition for Deaf Communication**   *YOLO / AI Interaction*
  Built a real-time gesture prediction system that dynamically generates datasets and assists in enhanced deaf communication.

- **Air Purifier Prototype**   *Hardware Project*
  Designed and implemented a functional prototype using carbon-based filtration for polluted environments.

- **Waste Segregation and Tracking**   *IoT + Mobile App*
  Developed a smart household waste segregation and municipality-linked mobile application for efficient waste monitoring.

ACHIEVEMENTS

- Won **1st Prize** in a state-level C Programming Competition among 1500+ participants for exceptional coding efficiency and logic building.

- Secured **2nd Prize** in a VLSI IoT Paper Presentation for delivering a technically strong, innovative hardware-driven solution.

- Achieved **2nd Prize** in Ideathon for developing a bi-directional ISL Translator concept enhancing communication accessibility.

- Ranked **Top 5** in EBox Top Coders Competition and awarded a cash prize of 6000 for problem solving excellence.

CERTIFICATIONS

- Embedded IoT and Open Source Programming using Raspberry Pi 4 – 48 Hours

- Industry Ready Engineering – Sunshiv Electronic Solution – 75 Hours

- Oracle Java Foundation Associate Certification