

AKSHAY S S

Chennai | akshaylakshna@gmail.com | 7397662991 | Portfolio | linkedin | Github

Profile

Electronics and Communication engineering enthusiast with hands-on exposure to embedded systems, digital electronics, and UAV technology. Experienced in technical projects, research documentation, and real-time learning environments. Strong problem-solving mindset with interest in automation, VLSI, and aerospace systems.

Skills

Programming: C, Python , SQL

Electronics & Embedded: Digital Electronics, Microcontroller, Verilog

Tools: Git , MS Office, Simulation & Documentation Tools

Concepts: UAV Systems, VLSI Fundamentals, Automation Basics

Core Strengths: Problem-solving, Technical Documentation, Team Collaboration

Education

Bachelor of Technology (B.Tech) – Electronics & Communication Engineering

Aug 2023 – May 2027

SRM Institute of Science & Technology, Ramapuram

CGPA: 7.53

Higher Secondary (Computer Maths)

Jun 2022 – May 2023

Green Garden Matriculation Higher Secondary School, Erode

Percentage: 64%

Experience

Amphenol Omnicomnect India Pvt. Ltd. – Technical Trainee

Dec 2024

Exposure to production workflows, quality discipline, and documentation in a manufacturing setup.

Coolmaker Solar Systems Pvt. Ltd. – Technical Intern

Jun 2025

Basic understanding of solar systems, field observation, and reporting tasks.

Aerospace & UAV Technology Participation

Ongoing

Hands-on exposure to UAV systems, flight concepts, and sensor-based applications.

Publications

Revolutionizing VLSI Design: Integrating Quantum-Dot Cellular Automata for Future-Ready Systems

2025

Research on Quantum-Dot Cellular Automata (QCA) based ultra low-power digital logic for next-generation VLSI architectures.

Status: Presented / Accepted in IEEE-format research work

Projects

Real-Time Gas Monitoring System (RTGMS)

2025

Embedded LPG monitoring system using load cell (HX711) and MQ-6 leak sensor with LCD alerts and buzzer response. **Tech:** Arduino, HX711, MQ-6, LCD, Embedded C

Vision Cane – Assistive Navigation Prototype

2024

Ultrasonic-based smart cane with vibration feedback for visually impaired users. **Focus:** Sensors, user-centric design

ExpanseIQ – Expense Tracking Tool

2024

Expense tracking system with visual summaries and spending insights. **Tech:** Python, Data Visualization

Complaint Management System

2024

Simple portal for complaint submission and status tracking.

Elite Shop – Mini E-Commerce Prototype

2024

Basic online shop prototype with product listing and checkout flow.

Languages

Malayalam: Native

Tamil: Fluent

English: Fluent

German: Intermediate