

AKSHAY S S

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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 (Basics), SQL

Electronics & Embedded: Digital Electronics, Microcontroller Basics, Verilog (Basics)

Tools: Git (Beginner), 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 SRM Institute of Science & Technology, Ramapuram CGPA: 7.53	Aug 2023 – May 2027
Higher Secondary (Computer Maths) Green Garden Matriculation Higher Secondary School, Erode Percentage: 64%	Jun 2022 – May 2023

Experience

Amphenol Omnicomnect India Pvt. Ltd. – Technical Trainee Exposure to production workflows, quality discipline, and documentation in a manufacturing setup.	Dec 2024
Coolmaker Solar Systems Pvt. Ltd. – Technical Intern Basic understanding of solar systems, field observation, and reporting tasks.	Jun 2025
Aerospace & UAV Technology Participation Hands-on exposure to UAV systems, flight concepts, and sensor-based applications.	Ongoing

Publications

Revolutionizing VLSI Design: Integrating Quantum-Dot Cellular Automata for Future-Ready Systems <i>Research on Quantum-Dot Cellular Automata (QCA) based ultra low-power digital logic for next-generation VLSI architectures.</i>	2025
Status: Presented / Accepted in IEEE-format research work	

Projects

Real-Time Gas Monitoring System (RTGMS) 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	2025
Vision Cane – Assistive Navigation Prototype Ultrasonic-based smart cane with vibration feedback for visually impaired users. Focus: Sensors, user-centric design	2024
ExpanseIQ – Expense Tracking Tool Expense tracking system with visual summaries and spending insights. Tech: Python, Data Visualization	2024
Complaint Management System Simple portal for complaint submission and status tracking.	2024

Languages

Malayalam: Native

Tamil: Fluent

English: Fluent

German: Intermediate