G A MAHAMMAD SAFWAN

ELECTRONICS & COMMUNICATION ENGINEERING • EMBEDDED SYSTEMS • IoT • WEB DEVELOPMENT

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PROFESSIONAL SUMMARY

Electronics & Communication Engineering graduate) with hands-on experience across embedded systems, hardware prototyping, IoT, and web development. Completed a VLSI design and verification internship focused on AMBA 3 APB protocol implementation, alongside building hardware prototypes and deployed web applications. Comfortable working across C, Python, Verilog HDL, and modern web fundamentals including HTML, CSS, and JavaScript.

EXPERIENCE

MasterVLSI | **VLSI Design & Verification Intern**
27 Jan 2026 – 09 May 2026

- Worked on AMBA 3 APB protocol design and verification using Verilog HDL and simulation on EDA Playground.
- Prepared technical documentation and presentation materials for design and verification activities.
- Developed practical understanding of signal-level verification, timing correctness, and structured hardware validation.

Self-Employed | **Freelance Web Developer**
Jun 2026 – Present | Karnataka, India

- Designed and developed responsive web experiences for clients, translating requirements into functional deliverables.
- Built a healthcare/hospital-related landing page focused on clear information delivery and accessibility.
- Handled client requirements through implementation and deployment.

SELECTED PROJECTS

DisasterNet OS · Hardware

- Designed an ESP32-based emergency communication system architecture to maintain connectivity when conventional infrastructure is unreliable.

FocusLearner Pro · Software

- Full-stack learning platform (React SPA + Flask API + PostgreSQL) deployed on Cloudflare Pages and Railway.

Automatic Water Irrigation System (AWIS) · Hardware

- Built an Arduino-based irrigation system that uses sensor input to trigger and control watering automatically.

FarmerEasy · Software

- Built a farmer-focused digital platform delivering practical agricultural information and services.

EDUCATION

Bearys Institute of Technology | B.E. — Electronics & Communication Engineering
Oct 2022 – Oct 2026

TECHNICAL SKILLS

Embedded & IoT: Embedded Systems, Microcontrollers, Arduino, Hardware Prototyping, IoT • Programming: C, Python, Verilog HDL • Web: HTML, CSS, JavaScript • Connectivity: UART, Wi-Fi, Bluetooth Low Energy (BLE) • Tools: EDA Playground, Git/GitHub

CERTIFICATIONS & ACTIVITIES

GDG Drone & Glider Technology Workshop • Anveshan 2025 — Round 1 (Hackathon) • The Complete Microsoft SQL Server Course: From A to Z • Campus Ambassador