

PROFESSIONAL SUMMARY

Undergraduate Electrical & Electronics Engineering student at Presidency University with practical expertise in web development, circuit simulation, and embedded prototyping. Experienced in building production WordPress platforms and responsive React applications for commercial clients alongside rigorous engineering coursework. Dedicated to verifiable technical competence, transparent documentation, and robust software/hardware integration.

EDUCATION

B.Tech in Electrical & Electronics Engineering — **Presidency University**, Bengaluru 2026 – Present
Core Coursework: Circuit Theory, Analog & Digital Electronics, Signals & Systems, Electrical Machines, Microcontrollers, Control Systems.

Higher Secondary Education (Science & Mathematics) — **DHSE Kerala** 2020 – 2022
Focused on Physics, Chemistry, Mathematics, and Computer Science with Distinction.

TECHNICAL SKILLS

Hardware & Embedded: Circuit Analysis, Schematic Reading, Bench Instruments (Digital Oscilloscope, Function Generator, DC Power Supply), Microcontrollers (STM32, ESP32, Arduino), Logic Analysis, Breadboard Prototyping.

Web & Frontend: React, TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3, Vite, TanStack Router, Responsive UI Architecture.

Backend & CMS: WordPress (Custom Themes & Site Architecture), PHP, MySQL, REST APIs, Supabase (PostgreSQL, Row-Level Security, Telemetry).

Tools & Workflows: Git, GitHub, VS Code, Linux/Unix, KiCad, Postman, Headless Chromium, Prompt Engineering & AI-Assisted Code Workflows.

EXPERIENCE

Freelance Web Developer — **Self-Employed / Independent Engagements** 2023 – Present

- Architected and delivered custom WordPress websites, responsive child themes, and modern React interfaces for business clients.
- Engineered technical SEO, caching headers, performance optimizations, and automated contact pipelines.
- Maintained scalable UI component libraries with Tailwind CSS adhering to WCAG accessibility principles.

Engineering Lab & Project Assistant — **Academic Engineering Studio** 2024 – Present

- Constructed and debugged analog/digital circuit prototypes on breadboards; verified step responses and rise times with digital oscilloscopes.
- Authored circuit schematics and bench test logs for peer review and laboratory verification.

FEATURED ENGINEERING & SOFTWARE PROJECTS

Interactive Engineering Simulator Hub React • Canvas API • DSP Web Audio • Tailwind CSS Browser-based electrical simulation suite featuring real-time oscilloscope emulation, active filter design, RLC transient solvers, and Fourier synthesis.	VSAF Advertising & Operations Portal React • WordPress • REST API • Tailwind CSS Commercial platform engineered with custom lead capture funnels, optimized mobile performance, and responsive showcase architecture.
KUG Oriental Global Trade Platform WordPress • PHP • Custom CSS • SEO Architecture Multilingual international export platform featuring structured product catalogs, responsive design, and enterprise inquiry management.	Personal Portfolio & CMS Workspace TanStack Start • React 19 • Supabase • Gemini AI Production-grade platform featuring private workspace ledger, live Supabase sync, telemetry monitoring, and automated test pipelines.

ACTIVITIES, LEADERSHIP & REFERENCES

- IEEE Student Branch:** Active participant in technical paper sessions, circuit debugging competitions, and instrumentation seminars.
- Peer Technical Workshops:** Facilitated peer coding sessions on React component design, Git version control, and electronics fundamentals.
- References:** Academic faculty references (Presidency University) and commercial client recommendations available upon formal request.

