

ETHAN SAMUEL DEVADATTA

Electronics & Computer Engineering Student

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EXECUTIVE SUMMARY

Second-year Electronics and Computer Engineering student at VIT Chennai with hands-on experience in RTL design and verification, digital logic, and full-stack development. Completed an industry certification program building a 32-bit RISC-V processor core in Verilog, alongside independent projects spanning IoT, web development, and applied machine learning. Combines a strong hardware foundation with an active interest in graphic design and creative development.

EDUCATION

Vellore Institute of Technology (VIT) – Chennai, Tamil Nadu <i>B.Tech, Electronics and Computer Engineering Registration No. 25BLC1046</i>	2025 - 2029
Deeksha Institution / Miranda Composite PU College – Bangalore, Karnataka <i>Pre-University (11th – 12th)</i>	2023 - 2025
Frank Anthony Public School – Bangalore, Karnataka <i>Schooling through 10th Grade</i>	2011 - 2023

PROFESSIONAL EXPERIENCE

Maven Silicon — RTL Design & Verification Certification Program <i>Hands-on training program (structured as an internship)</i>	May 2026 – July 2026
- Designed and verified the MSRV32, a 32-bit RISC-V (RV32I) processor core built on a 3-stage pipeline, across all 16 constituent RTL modules in Verilog HDL. - Functionally verified each module using ModelSim, capturing and analyzing waveform simulations to confirm timing and logic correctness. - Authored a complete 23-page project report documenting architecture, module-level design decisions, and simulation results for all 16 modules.	

PROJECTS

Agrixa — Smart Agriculture Platform

- Built a platform to help farmers monitor crop health, receive crop recommendations, and detect plant disease using machine learning. Python, Machine Learning, AI, HTML, CSS.

Mini ESP32 Drone

- Designed and built a Wi-Fi-controlled mini drone driven by a mobile app; designed and 3D-printed the custom frame. IoT, C++, ESP32, 3D Printing.

Flame Bot — Discord Bot

- Developed an all-in-one Discord bot with 170+ commands covering moderation, server backups, leveling, economy, and ticketing, backed by MongoDB. JavaScript, Node.js, Discord.js.

Password Lock System

- Built a hardware Password Lock System prototype on breadboard using TTL/CMOS logic ICs (74HC85, 7408, 7404, 7432, 7493), comparing user input against a preset binary password.

Personal Portfolio Website

- Designed and built a personal portfolio site to showcase projects and experience, hosted at ethandevadatta.netlify.app.

TECHNICAL SKILLS

Software & Web: Python, JavaScript, HTML, CSS

Hardware & Systems: C/C++, Verilog HDL, MATLAB, Java

Tools: ModelSim, Git/GitHub, LTspice, MongoDB