GIDEON ADJEI

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SUMMARY

Computer Engineering graduate with a strong academic background and hands-on experience in embedded systems, digital design, cryptography, and software development. Passionate about leveraging technology to solve real-world problems and improve lives. Seeking an opportunity to grow and contribute in a forward-thinking tech organization.

EDUCATION

B.S, Computer Engineering Graduated Nov 2024

Kwame Nkrumah University of Science and Technology, Kumasi, GH 3.82 GPA

College of Engineering

Relevant coursework: Digital Circuit Design, Operating Systems, Computer Architecture, Embedded Systems Design, Linear Electronics, Introduction to VLSI, Computer Networking, Secure Network Systems, MATLAB and LABVIEW, C Programming, OOP(C++), Databases

TECHNICAL SKILLS

Design and Modeling Tools: Proteus, Eagle, Vivado, MATLAB, Docker, Kathara, Microsoft Office
Programming: C, C++, Python, Verilog
Databases and Statistics: SQLite, Postgres
Tools: VS Code, Proteus Suite, MatLab, Linux, WSL, STM32CubeIDE, Studio Composer, Vivado

PROFESSIONAL EXPERIENCE

Kwame Nkrumah University of Science and Technology, Kumasi: Teaching Assistant Oct 2024 – Present

- Supervised and coordinated lab sessions on C Programming, Problem Solving, and DSA labs (C, Python).
- Tracked students' attendance using iClicker.
- Organized tutorials that improved students' problem-solving performance by over 60%.

ACADEMIC PROJECTS

Custom ALU July 2024 – Sep 2024

Designed an ALU module with enhanced multiplication and addition using Verilog.

- Used a carry look-ahead adder to boost speed by 68% over ripple-carry architecture.
- Implemented carry-save multiplier for parallel multiplication, increasing performance by 80%.

Custom SHA256 and ECC July 2024 – Sep 2024

Explored the building blocks of modern cryptography.

- Implemented SHA-256 hash function compliant with FIPS 180-4 standard.

Pregnancy Tester Feb 2023 – Mar 2023

Created a low-power pregnancy tester PCB using STM8S microcontroller

- Used STM8S MCU to cut cost by 50% and power consumption by 60%.

Custom Unix Shell June 2024 – Aug 2024

Built a UNIX-like shell from scratch in C.

- Managed team schedule and quality metrics using Notion.
- Enforced Betty coding style to streamline collaboration.

Bank Ticketing Application March 2022

Led a team to develop a system reducing wait times by 70%.

- Used queue data structures to improve processing speed by 20%.

ACTIVITIES

YouTube Tutor Jan 2025 – Present

Created educational content for programming and engineering students.

- Produced tutorials to help undergraduates grasp complex programming concepts.
- Hosted interviews with mentors to share industry insights.