OYINKANSOLA AKAPO

Electrical Hardware Engineer

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PROFESSIONAL SUMMARY

Recent Master of Science graduate in Electrical Engineering, specializing in hardware design. With proven experience in analog design, ASIC design, circuit schematics, transistor-level circuit design and simulation, laboratory testing and debugging, technical writing, and solution-oriented problem-solving. I am eager to leverage this diverse skill set in innovative ways in a result-driven team dedicated to delivering cutting-edge and high-performance circuit design solutions.

EDUCATION

Master of Science, Electrical and Computer Engineering | Georgia Institute of Technology | *GPA: 3.6* | *Atlanta, GA, 2023*
Bachelor's Electrical and Electronics Engineering | Covenant University | *GPA: 4.5/5* | *Nigeria, 2021*

Relevant Coursework: Analog Integrated Circuits (analog/mixed-signal design), Power IC Design (power supply design), Analog IC Design (OpAmp design), Analog Integrated System Design (ADC design), Interface IC design for MEMS sensors (oscillator design). Micro-Electromechanical Systems (MEMS fabrication and implementation), Digital Electronics, Applied Electronics, Power Electronics, System Design, Power Systems, Power Electronics, Industrial Electronics

PROJECTS

- Executed a 2-stage audio amplifier on board level with optimized gain, bandwidth, and Common Mode Rejection Ratio.
- Implemented transistor model on LTspice for the detection of mutations in the cystic fibrosis trans-conductance (CFTR) membrane.
- Optimized a Whispering Gallery Mode MEMS resonator on COMSOL Multiphysics for ppb ammonia sensing.
- Engineering of 8-bit Analog-to-Digital Converter on Cadence Virtuoso to meet resolution and noise design specifications.
- Implemented a two-load 60% efficient solar-powered inductive resonant charger on PCB. Debugging and troubleshooting the prototype using digital multimeters, signal generators, and oscilloscopes.
- Design of PLC ladder diagrams for mixer and sensor systems. Accounting for various processes and design specifications.

SKILLS

• LT Spice	• Revit	• COMSOL	• Microsoft Office Suite	• Python
• Cadence Virtuoso	• AutoCAD	• MATLAB	• Communication	• Project Management

WORK EXPERIENCE

MEP Electrical Engineer | *Topklan Engineering Services, Nigeria* | *01/2022 – 07/2022*

- Spearheaded new intern onboarding, achieving a 50% reduction in onboarding time for enhanced productivity.
- Oversaw on-site contractor supervision, leading to a 15% reduction in project deployment time.
- Executed over 20 electrical service drawings, meeting deadlines with a 95% success rate using Revit and AutoCAD.
- Documented on-site progress meticulously, pinpointing challenges and providing solutions in adherence to NEC standards, resulting in streamlined communication and informed decision-making for project stakeholders.

Intern| *MainOne Cable Company, Nigeria* | *03/2020 – 10/2020*

- Executed 20+ fiber layout plans, integrating routing and material planning using OSP Insights and Google Earth.
- Organized project documentation and progress reports, enhancing workflow efficiency and accessibility by 20%

VOLUNTEER WORK & LEADERSHIP

Chair, Public Relations| *African Graduate Students Connect*|*08/2023 – Present.*

- Initiated active student engagement on social media, boosting Fall 2023 membership and event participation by 45%.
- Secured over $1000 in funding, facilitating the organization of events like soccer games and info sessions.

Teaching Assistant| *GT 6000 course*|*06/2023 – 10/2023*

- Led engaging class discussions, fostering community, and introducing students to on-campus resources.
- Devised feedback systems to establish robust metrics for assessing leadership effectiveness, boosting class participation by 60%.