SAMUEL W. OUEDRAOGO

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EDUCATION

Bachelor of Science | *Major:Computer Engineering* — September 2021 – December 2023
Drexel University — Philadelphia, PA

Associate of Science | *Major: Mathematics* — August 2019 – June 2021
Community College of Philadelphia — Philadelphia, PA

Bachelor of Sciences | *Major: Earth Sciences/Geophysics* — August 2010 – May 2016
University of Ouagadougou — Burkina Faso

SKILLS

Programming languages: C, C++, Python, Node.JS, SQL, Verilog

Hardware design: ASIC design, Floor Planning, Placement, Routing

DevOp and collaboration tools: Microsoft Teams,Git, Jira, CI/CD Pipeline

Data Analytics: Data visualization and analytics with Dash and Tableau

Web Development: React, Plotly Dash

Certifications: AWS Cloud Practitioner

Foreign Languages: French (fluent), Mandarin (elementary)

WORK EXPERIENCE

Software Engineer — April 2023 – Present
Lockheed Martin — Moorestown, NJ
- Develop and maintain object oriented applications
- Testing and debugging
- Collaborate with other engineers in the software development process

Digital Literacy and Youth Empowerment Co-facilitator — March 2022 – March 2023
African Family Health Organization (AFAHO) — Philadelphia, PA
- Mentoring and tutoring students
- Provide and teach digital literacy curriculum to adult learners

Software Developer and Research Assistant — September 2021 – August 2022
Drexel University — Philadelphia, PA
- Neuromorphic Computing and sensors processing
- Implement Asynchronous Spiking Neural Networks Algorithms
- Adiabatic logic circuits designs

Mathematics Tutor — August 2019 – August 2021
Community College of Philadelphia — Philadelphia, PA
- Tutored Calculus I, Calculus II, and Statistics for engineers
- Helped 25 students aged 18 to 37 expand their mathematics skills

Chemical Biological Radiological and Nuclear (CBRN) Specialist — November 2018 – Present
US Army — Aberdeen, MD
- Defend the United States against CBRN threats
- Operate and maintain CBRN Detection and decontamination Equipment

PROJECTS AND RESEARCH

Comparative Analysis of FPGA and ASIC Implementation of ECRL and PFAL | *Verilog* Spring 2023
Drexel University

Control of Planar Phased Array Radar | *MATLAB, Python* Fall 2022
Drexel University

Indoor Robot Air Quality Monitoring | *C++, C* Fall 2021
Drexel University

HONORS AND AWARDS

NCO Professional Development Ribbon February 2024
Awarded upon completion of the US Army Basic Leader Course

Dean's List Winter 2023
Awarded to students who have achieved a grade point average of 3.6 or higher

Okada Engineering Scholarship August 2022
Merit based scholarship for students pursuing a bachelors degree in Engineering

A. J. Drexel Scholarship August 2021
Merit based scholarship to support full time undergraduate students at Drexel university

National Defense Service Medal June 2019
Awarded to U.S. service members who served during periods of national emergency or armed conflict

Army Service Ribbon June 2019
Recognition for the U.S. service members commitment in the United States Army

COMMUNITY INVOLVEMENT

Louis Stokes Alliance for Minority Participation Fall 2021 – Present
Supporting Drexel's historically underrepresented minority Philadelphia, PA

Lockheed Martin Black Excellence Concil April 2023 – Present
Support diversity and inclusion of minorities in corporate environments Moorestown, NJ

Lockheed Martin Military Veterans Business Resource Group April 2023 – Present
Support the U.S. military veterans and their families Moorestown, NJ