DOREEN OWOO

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EDUCATION

Academic City University College   Accra, Ghana
B.Sc. Electricals/Electronics Engineering   **CWA**:88.44/100
                                                                                             Graduating *July, 2026*

AWARDS & ACCOLADES

- Presidential Scholarship   2023, Academic City College

WORK EXPERIENCE

MakeLab, Academic City College, **Accra, Ghana**   Jan 2024-Present
Arduino Tutor Intern

- **Cultivate** an engaging and interactive learning environment for students delving into **Arduino** programming and **electronics fundamentals**, enhancing their hands-on skills and theoretical knowledge.
- **Design** and **implement** innovative project-based learning modules that challenge students to apply concepts in real-world scenarios, significantly boosting their problem-solving abilities and creativity

PROJECTS

Sickle Health Guardian, **Accra, Ghana**   https://github.com/Doresto-sudo/Sickle-Health-Guardian

- Pioneered the development and launch of a smartwatch for continuous vital sign monitoring in sickle cell patients, spearheading a cross-functional team effort.
- Resulted in a transformative smartwatch solution, revolutionizing healthcare management for sickle cell patients and highlighting my team's prowess in innovative healthcare technology development.
- Integrated cutting-edge hardware and software components, leveraging Blender for 3D rendering, **ESP32 microcontroller** for control, and **Arduino code** for **sensor programming**, ensuring precision and regulatory compliance.

Robo-harvestor, **Accra, Ghana**   https://github.com/Doresto-sudo/Robo-harvestor.git

- Programmed a **Raspberry Pi microcontroller** using **Python** within **Thonny** software to enable autonomous navigation and fruit detection for a **3D-printed** fruit harvesting robot prototype.
- Collaborated on optimizing mechanical and electronic systems, seamlessly integrating them to ensure functionality.
- Achieved an **80%** efficiency rate with the functional prototype autonomously identifying and harvesting ripe fruits, showcasing technical prowess and commitment to practical innovation.

SKILLS & CERTIFICATIONS

Technical Skills: Arduino Programming, C Programming, Programming in Python, MATLAB Fundamentals, SOLIDWORKS
Soft Skills: Teamwork, Communication and Collaboration, Self-motivated, Optimistic, Leadership, Public Speaking, Continuous Learning and Improvement, Workflow Optimization, Problem Solving.
Certifications: Arduino Certification, Programming in C Fundamentals, MATLAB Onramp, Trello Fundamentals Badge, Robotics Competition Participant, Google Developers Students Club Hackathon.

EXTRA-CURRICULARS

Google Developers Students Club, Social Media Manager   Sept 2023-Present

- Curated **engaging content** and fostered a **vibrant online**, driving significant   growth in followership and engagement.
- Leveraged **strategic campaigns** and innovative initiatives to elevate the club's online presence, amplifying its impact and reach within the tech community.
- Effectively communicated the club's mission through **creative storytelling** and targeted outreach, resulting in a **weekly increase** of **one new follower** on both **LinkedIn** and **Instagram** platforms, while exposing the student body to Google tools for problem-solving.

COMMUNITY SERVICE

Junior Medical Academy, Ambassador   Sept 2020-Nov2020

- Planned and organized engaging biology tutorials on **Zoom** to impart knowledge and ignite a passion for science among underserved individuals.
- Collaborated with fellow tutors to establish a **supportive learning environment** and exchange effective teaching techniques, fostering a culture of shared learning and growth.
- Empowered communities with newfound scientific understanding and enthusiasm for learning, enriching educational opportunities for underserved individuals and fostering a lasting impact in science education.