Clinton Enwerem

0201B Engineering Annex Building
University of Maryland
College Park, MD 20742, USA

enwerem@umd.edu
(+1) 301–405–6579
https://coenwerem.github.io

EDUCATION

University of Maryland, College Park, MD
Ph.D., Electrical & Computer Engineering, Expected May 2026

University of Nigeria, Nsukka, Enugu, Nigeria
Bachelor of Engineering, Electrical Engineering, Aug 2018 — GPA: 3.84

RESEARCH EXPERIENCE

Research Assistant — Aug 2021 – May 2022
Institute for Systems Research, University of Maryland — College Park, MD
- Research Focus: Dexterous Grasping & In-Hand Manipulation.
- Advisor: Professor John S. Baras

Graduate Research Assistant — Sep 2018 – Dec 2020
Control & Instrumentation Lab – EE Department, University of Nigeria, Nsukka — Enugu, Nigeria
- Research Themes: Robust Control, Observer-Based Compensator Design, Feedback Linearization

Undergraduate Research Assistant — Aug – Oct 2017
Control & Instrumentation Lab – EE Department, University of Nigeria, Nsukka — Enugu, Nigeria
- Research Themes: Feedback Control, Time-Delayed Systems, System Identification.

PROFESSIONAL EXPERIENCE

Summer Intern — June 2022 – Present
University System of Maryland, Southern Maryland — California, MD
- Focus Areas: Multi-Agent Cooperative Control, Formation Control, Target Tracking.
- Supervisor: Dr. Danilo Romero

Robotics Trainee — Mar 2020 – Feb 2021
Robotics & Artificial Intelligence Nigeria — Ibadan, Nigeria
- Built hardware and wrote visual SLAM software for a modular differential-drive mobile robot (*Tools: Python, ROS, Bash, OpenCV, MS Visio*).
- Prototyped a low-cost flight control and communications system for a quadrotor delivery drone as part of a team (*Tools: C++, SolidWorks, MultiWii*).
- Developed software for an obstacle-avoiding, teleoperable, and ROS-compliant mini ground vehicle equipped with a single-board computer and a ranging sensor (*Tools: Python, ROS, Bash*).

COMPUTER SKILLS

Robotics Tools: ROS, Gazebo, RViz, MoveIt!, CoppeliaSim, MuJoCo
Languages: Matlab, C++, Python, Bash, LaTeX.
Web: HTML, CSS, Markdown.
Applications: PyCharm, Eclipse, Visual Studio Code, git, VirtualBox.
Operating Systems: Linux, Windows.

PUBLICATIONS

Journal Papers:
- I. Okoro and **C. Enwerem**,"Robust Control of a DC Motor," Heliyon, vol. 6, no. 12, pp. 1-8, 2020, **doi**: 10.1016/j.heliyon.2020.e05777.

Conference Papers:
- I. Okoro and **C. Enwerem**, "Model-based Speed Control of a DC Motor Using a Combined Control Scheme," 2019 IEEE PES/IAS PowerAfrica, Abuja, Nigeria, 2019, pp. 1-6, **doi**: 10.1109/PowerAfrica.2019.8928856.

COURSEWORK

Doctoral: Convex Optimization, System Theory (Fall 2021); Nonlinear Control Systems, Optimal Control (Spring 2022).
Postbaccalaureate Training: Advanced Control Theory for Mobile Robots, AI for Humanoid Robotics, Control Theory & IoT (2020).

HONORS & AWARDS

- Finalist, Engineers' League, Pan-African Robotics Competition, Rwanda (2021).
- CIT Dean's Fellowship, Carnegie Mellon University, Africa Campus (2021).
- Dean's Fellowship, University of Maryland, College Park, MD, United States (2021).
- Scholar, Stanford Exposure to Research & Graduate Education, Stanford University, CA, USA (2020).
- Recipient, Opportunity Funds Program Scholarship, EducationUSA, US Consulate General (2020).

EXTRA-CURRICULAR ACTIVITIES

- Member, Black in Robotics – a U.S. organization that promotes Black representation in robotics.