

Clinton Enwerem

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RESEARCH INTERESTS	Applied Control Theory, Mobile Robotics, Machine Learning
EDUCATION	<p>University of Maryland, College Park, MD <i>Ph.D.</i>, Electrical & Computer Engineering, Expected May 2026</p> <p>University of Nigeria, Nsukka, Enugu, Nigeria <i>Bachelor of Engineering</i>, Electrical Engineering, Aug 2018</p> <p>GPA: 3.84</p>
RESEARCH EXPERIENCE	<p>Research Assistant Aug 2021 – Present Institute for Systems Research, University of Maryland College Park, MD</p> <ul style="list-style-type: none">• Research Focus: Trusted Autonomous Systems, Robust Robot Control.• Advisor: Professor John S. Baras <p>Graduate Research Assistant Sep 2018 – Dec 2020 Control & Instrumentation Lab – EE Department, University of Nigeria, Nsukka Enugu, Nigeria</p> <ul style="list-style-type: none">• Research Themes: Robust Control, Observer-Based Compensator Design, Feedback Linearization <p>Undergraduate Research Assistant Aug – Oct 2017 Control & Instrumentation Lab – EE Department, University of Nigeria, Nsukka Enugu, Nigeria</p> <ul style="list-style-type: none">• Research Themes: Feedback Control, Time-Delayed Systems, System Identification.
PROFESSIONAL EXPERIENCE	<p>Research Intern June 2022 – Present University System of Maryland at Southern Maryland California, MD</p> <ul style="list-style-type: none">• Working in collaboration with the MATRIX Lab on problems spanning multi-agent cooperative control, formation control, and target tracking.• Supervisor: Dr. Danilo Romero <p>Robotics Trainee Mar 2020 – Feb 2021 Robotics & Artificial Intelligence Nigeria Ibadan, Nigeria</p> <ul style="list-style-type: none">• Built hardware and wrote visual SLAM software for a modular differential-drive mobile robot.• Prototyped a low-cost flight control and communications system for a quadrotor delivery drone as part of a team.• Developed software for an obstacle-avoiding, teleoperable, and ROS-compliant mini ground vehicle equipped with a single-board computer and a ranging sensor.
COMPUTER SKILLS	<p>Robotics Tools: ROS, Gazebo, RViz, MoveIt!, Coppeliasim, MuJoCo</p> <p>Languages: Matlab, C++, Python, Bash, \LaTeX.</p> <p>Web: HTML, CSS, Markdown.</p> <p>Applications: Visual Studio Code, git.</p> <p>Operating Systems: Linux, Windows.</p>
PUBLICATIONS	<p>Journal Papers:</p> <ul style="list-style-type: none">• I. Okoro and C. Enwerem, “Robust Control of a DC Motor,” <i>Heliyon</i>, vol. 6, no. 12, pp. 1-8, 2020, doi: 10.1016/j.heliyon.2020.e05777. <p>Conference Papers:</p> <ul style="list-style-type: none">• 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.

RELEVANT COURSES	<p>Doctoral: Convex Optimization, System Theory (Fall 2021); Nonlinear Control Systems, Optimal Control (Spring 2022).</p> <p>Postbaccalaureate Training: Advanced Control Theory for Mobile Robots, AI for Humanoid Robotics, Control Theory & IoT (2020).</p>
HONORS & AWARDS	<ul style="list-style-type: none"> • Diversity Scholar, ROSCon 2022, Open Robotics, Mountain View, CA, USA (2022). • Finalist, Engineers' League, Pan-African Robotics Competition, Rwanda (2021). • CIT Dean's Fellowship, Carnegie Mellon University, Africa Campus, Kigali, Rwanda (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).
SERVICE	<ul style="list-style-type: none"> • Member, Black in Robotics – a U.S. organization that promotes Black representation in robotics.