

# Clinton Enwerem

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## Research Interests

Applied Control Theory, Multiagent Systems, Robotics.

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## Education

- 2021-Date **PhD, Electrical & Computer Engineering**, *University of Maryland*, College Park, MD, USA  
Expected May 2026. Advisor: Professor John S. Baras.
- 2014-2018 **Bachelor of Engineering, Electrical Engineering**, *University of Nigeria*, Nsukka, Enugu, Nigeria  
GPA: 3.84/4.

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## Selected Publications

### Articles Submitted/Under Review

- 2023 **Clinton Enwerem** and John S. Baras. Consensus-Based Leader-Follower Formation Tracking for Control-Affine Nonlinear Multiagent Systems, February 2023.
- 2023 **Clinton Enwerem**, John S. Baras, and Danilo Romero. Distributed Optimal Formation Control for an Uncertain Multiagent System in the Plane, January 2023.
- 2022 **Clinton Enwerem** and Ihechiluru Okoro. Optimal Controller Tuning Technique for a First-Order Process with Time Delay, October 2022.

### Journal Articles

- 2020 Ihechiluru Samuel Okoro and **Clinton O. Enwerem**. Robust control of a DC motor. *Heliyon*, volume 6, December 2020.

### In Conference Proceedings

- 2019 Ihechiluru Okoro and **Clinton Enwerem**. Model-based Speed Control of a DC Motor Using a Combined Control Scheme. In *2019 IEEE PES/IAS PowerAfrica*, pages 1–6, August 2019.

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## Research Experience

### Institute for Systems Research, University of Maryland

- Aug. 2021-Date **Graduate Research Assistant**  
Research Focus: Networked Multiagent Systems, Trusted Autonomy, Robust Robot Control.

### Control & Instrumentation Lab – EE Department, University of Nigeria, Nsukka

- Sep. 2018-Mar. 2021 **Graduate Research Assistant**  
Research Topics: Robust Control, Observer-Based Compensator Design, Feedback Linearization.

- Aug.-Oct. 2017 **Undergraduate Research Assistant**  
Research Topics: Feedback Control, Time-Delayed Systems, System Identification.

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## Professional Experience

### University System of Maryland at Southern Maryland, California, MD

- Jun.-Aug. 2022 **Research Intern**  
Worked in collaboration with the **MATRIX** Lab on problems encompassing multi-agent cooperative control, formation control, and target tracking.  
Supervisor: Dr. Danilo Romero.

### Robotics & Artificial Intelligence Nigeria, Ibadan, Nigeria

- Mar. 2020-Feb. 2021 **Robotics Trainee**  
Saw diverse robotics projects through the entire robot (hardware and software) development cycle spanning computer-aided design, prototyping, firmware and controls, testing, and deployment stages.

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## Honors & Awards

- 2022 2022-2023 Microsoft Diversity in Robotics & Autonomy PhD Fellowship.
- 2022 ROSCon Diversity Scholarship: Travel grant to attend ROSCon 2022 in Kyoto, Japan.
- 2021 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.
- 2020 Scholar, Stanford Exposure to Research & Graduate Education, Stanford University, CA, USA.
- 2020 EducationUSA Opportunity Funds Program Scholarship, U.S. Consulate General.
- 2020 Sole Recipient, Door Foundation Leadlight Scholarship, Robotics & Artificial Intelligence Nigeria.
- 2016-2018 Agbami Science & Technology Scholarship, Chevron: Merit-based undergraduate scholarship.
- 2015-2018 MTN Foundation Scholarship: Merit-based undergraduate scholarship.

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## Technical Skills

- Robotics **Tools:** ROS, Gazebo, RViz, MoveIt!; **Robots:** Crazyflie 2.X, Turtlebot2.
- Engineering MCUs, Prototyping, Altium Designer, SolidWorks, Fusion 360.
- Programming Matlab, C/C++, Python, Bash, ~~LaTeX~~ LaTeX, Tk.
- Frameworks Jupyter, TensorFlow, OpenCV.
- Optimization Gurobi, Pyomo.
- Web HTML, CSS, JavaScript, Markdown.
- OS Linux, Windows.
- Version Control git, GitHub, GitLab.

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## Relevant Courses

### Doctoral

- Spring 2023 Network Control Systems, Decision Making Under Uncertainty: RL, Control, & Games.
- Fall 2022 Random Processes, Advanced Digital Signal Processing.
- Spring 2022 Nonlinear Control Systems, Optimal Control.
- Fall 2021 Convex Optimization, System Theory.

### Open Courseware

- Fall 2022 Aerial Robotics by UPenn.
- Summer 2022 Autonomous Navigation for Flying Robots by TUM.
- Spring 2022 Principles of Robot Autonomy I & II by Stanford.

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## Outreach & Mentoring

- 2021-Date Member, Black in Robotics (BiR): [BiR](#) is a U.S. organization dedicated to promoting Black representation in robotics.
- 2021-2022 Mentor, EducationUSA and the iScholar Initiative: provided guidance to outstanding STEM college graduates from underrepresented backgrounds, which culminated in their securing full-ride U.S. grad admission offers.