Mercy Daniel-Aguebor

mercydaguebor@gatech.edu |682.521.6916 | www.linkedin.com/in/mercydaguebor

EDUCATION

Georgia Institute of Technology Atlanta, GA

Ph.D., Electrical Engineering Expected Graduation: May 2022

Research Topic: Power delivery for electronic systems focusing on ultra high-density integrated capacitors.

Howard University Washington, D.C.

Bachelor of Science, Electrical Engineering Graduation: May 2018

AWARDS AND HONORS

Recipient, 2018 Jay Schlag Fellowship
Fellow, 2018 Summer Institute of Sustainability and Energy
Inductee, 2016 Tau Beta Pi, Engineering Honor Society

EXPERIENCE

Integrated Circuits Technology, *Research Assistant* Washington, D.C. Jan 2018 – May 2018

- Fabrication of and measurement of Schottky diodes
- Documentation of Lab processes in fabrication

Aquicore, *Testing Intern* Washington, D.C**.** Jan 2018 – March 2018

- Wrote test programs in python for IOT connected electric meters
- Created test plans for testing new equipment that can optimize product while cutting cost
- Utilized company resources to efficiently categorize product priorities for customers.

Aquicore, *Customer Experience Intern* Washington, D.C. July 2017 – Dec 2017

- Built new electric meters and hubs specific to customer's energy requirements
- Monitored and Diagnosed IOT Electric Meter alerts to reduce anomalies and failure rates by 50%

RESEARCH

Vertical Integrated Projects, Howard University, Washington, D.C.

Research Assistant for Physics of Reliability and Failure Jan 2017 – June 2017

- Conducted research measuring point of failures under several conditions and investigating impedance spectroscopy for different kinds of circuit

Center for Energy Systems and Control, Howard University, Washington, D.C.

Research Assistant for Control strategies on renewable power systems May 2016 – July 2016

- Modeled renewable energy output to determine optimal conditions for various factors.
- Worked with the synchronous machine to collect and analyze data to for various control strategies in a microgrid – renewable energy system
- Co-ordinated Pre-College Engineering High School program by organizing program syllabus, and logistic details

Center for Energy Systems and Control, Howard University, Howard University, Washington, D.C.

Research Assistant for Wire frangibility in Aviation Lightning Protection Scheme May 2015 – July 2015

- Conducted extensive research in predicting frangibility of wires and mapping out a pattern for prediction using data.
- Mentored Pre-College High School students as a resident assistant.

LEADERSHIP AND PROFESSIONAL AFFILLIATION

Peer Instructor **The Hive MakerSpace Georgia Institute of Technology,** *2019*
Administrator **The Nigerian Think Tank,** *2019*
Teaching Assistant **Georgia Institute of Technology***, 2018, 2019*
Public Relations Chair **Institute of Electrical and Electronics Engineers**, 2017
Treasurer **Tau Beta Pi**, 2017
Student Tour Guide **Howard University**, 2016

SKILLS & INTERESTS

PROGRAMMING: Python, C++, MATLAB, Linux, Microcontroller boards, FPGA boards