


OLUWASEUN N. ADEYEYE CURRICULUM VITAE


CONTACT

Phone: 📞 443-801-3130

Email: ✉️ oluwaseun.adeyeye@bison.howard.edu

LinkedIn:  [linkedin.com/in/oluwaseun-adeyeye](https://www.linkedin.com/in/oluwaseun-adeyeye)

GitHub:  github.com/NoahAdeyeye

Website:  noahadeyeye.dev

EDUCATION

Bachelor of Science in Electrical Engineering, in progress

May 2026

Howard University, Washington, D.C.

Department of Electrical Engineering and Computer Science

Maryland High School Diploma

June 2022

Atholton High School, Columbia, MD

RESEARCH AND ENGINEERING EXPERIENCE

Stanford Undergraduate Research Fellowship (SURF)

Summer 2024

Summer Researcher

Palo Alto, California

- Enhanced the efficiency of triplet-triplet annihilation upconversion by increasing its effective quantum efficiency by 4x.
- Conducted wet lab research, performing experiments using techniques such as spin coating, evaporation, and optical spectroscopy.
- Designed experiments to minimize the loss of effective quantum efficiency caused by oxygen exposure in samples.

NASA Jet Propulsion Laboratory (JPL)

Summer 2023

Summer Intern

Pasadena, California

- Developed an open-source simulation tool for exoplanet imaging using the Julia programming language.
- Coded optimal pupil-apodization basis sets to illustrate eigenvalues that minimize solar interference.
- Programmed in C++ and Julia, expanding my toolkit to effectively address scientific challenges.

SUDO EM Research

Fall 2023 - Present

Student Researcher

Washington, D.C.

- Continued research with NASA JPL, optimizing the open-source simulation tool and collaborating with other students to improve research outcomes.
- Effectively taught students the Julia programming language and guided them in using GitHub to organize their code.

Laser Spectroscopy Laboratory Research

Fall 2024 - Present

Student Researcher

Washington, D.C.

- Conducting research on Raman spectroscopy of lunar analog minerals through machine learning modeling and simulation, with a focus on developing software to accurately predict mineral compositions.
- Collaborating on the optimization of machine learning models for mineral identification and refining predictive capabilities for lunar analog studies.

Google Tech Exchange

Spring 2024

2024 Cohort

Mountain View, California

- Selected for the Google Tech Exchange program an immersive experience that provided in-depth exposure to cutting-edge technologies and industry practices.
- Collaborated with industry experts and fellow students on real-world projects, gaining valuable insights into Google's innovative approach to solving complex challenges.
- Developed proficiency in the latest tools and technologies, enhancing my technical skill set and problem-solving abilities.

CIEE Study abroad

Summer 2022

Student Researcher

Berlin, Germany

- I completed a two-week intensive fellowship in Germany where I participated in seminars related to the public health field, visited the World Health Organization, learned from STEM professionals, and had unique cultural experiences such as visiting the Berlin Wall and Nazi concentration camps.

Project Lead The Way (PLTW)

2018 - 2022

Student Researcher

Berlin, Germany

- PLTW Engineering course engages students in interdisciplinary activities like designing products, programming electronic devices, patent research, and building circuits.
- These activities helped me build knowledge and skills in engineering, as well as develop essential skills such as problem-solving, critical and creative thinking, communication, collaboration, and perseverance.

HONORS AND AWARDS

Howard University Empower Pitch Competition - 1st Place Winner

March 2024

- Awarded first place for Tree Technologies, a company dedicated to creating transformative digital applications for university campuses.

Karsh STEM Scholar

August 2022 - Present

- Selected as a distinguished member of the 6th cohort of Howard University's prestigious Karsh STEM Scholars Program, recognizing academic excellence and leadership in STEM.

Dean's List

2022 - 2024

- Honored on the Dean's List for academic excellence within the Howard University College of Engineering and Architecture.

PLTW Engineering Academy Certificate

June 2020

- Received for completing the rigorous Project Lead the Way Engineering Academy, emphasizing foundational skills in engineering.

James E. Blackwell Scholarship

September 2023

- Awarded in recognition of commitment to addressing practical problems with innovative solutions and a dedication to societal improvement.

Yvonne Harrison Scholarship

September 2023

- Recognized for academic merit and dedication to problem-solving that benefits the wider community.

Council of Elders of the Black Community Certificate of Achievement

September 2023

- Awarded by Howard County in recognition of commitment to impactful problem-solving and service to the community.

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers (IEEE)

August 2022 - Present

- Member of the Institute of Electrical and Electronics Engineers, involved in networking and professional development.

National Society of Black Engineers (NSBE)

August 2022 - Present

- Active member of the National Society of Black Engineers, focusing on academic excellence and community outreach.

Bethel Campus Fellowship

Spring 2022 - Present

- Participated in fellowship activities that foster spiritual growth and community service.

Howard University Student Association

Spring 2022 - Spring 2023

- Involved in student government initiatives to enhance the student experience at Howard University.

Karsh STEM Scholars Program

August 2022 - Present

- Participating in a prestigious program aimed at supporting STEM students through mentorship and resources.

CONFERENCE PARTICIPATION

IEEE MTT-S International Microwave Symposium

June 2023

- Attended sessions focused on microwave theory and techniques, with particular interest in engineering applications.

The Leadership Alliance National Symposium

July 2023

- Participated in discussions on leadership in STEM, with emphasis on advancing research in underrepresented communities.

Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS)

November 2023

- Engaged with scientific leaders and peers, fostering collaborations in biomedical research.

Science with the Habitable Worlds Observatory and Beyond Conference

July 2023

- Explored future missions and the science of habitable worlds, with a focus on exoplanet imaging.

NSBE's 50th Annual Convention

March 2024

- Participated in sessions and networking events focused on engineering, professional development, and diversity in STEM.

PROJECTS

Rooted: University Hub | Website iOS App

January 2023 - Present

- Co-founded Tree Technologies, a company focused on developing innovative digital applications for universities.
- Created a centralized platform that enables students to seamlessly connect with Howard University's technology infrastructure.
- Built using React Native and AWS, encompassing both the frontend and backend of the application.

ACADEMIC SERVICE AND LEADERSHIP

Howard University Student Association (HUSA)

Spring 2023 - Spring 2024

Senator, College of Engineering and Architecture

Howard University

- Represent the School of Engineering and Architecture in the Howard University Senate. Key accomplishments include passing the "Project Gift-back" and "Flowers Project" Acts, initiatives aimed at supporting and giving back to Howard University workers and administration.

College of Engineering Council

Fall 2022 - Present

Council Member

Howard University

- Played a central role in coordinating the College of Engineering and Architecture Hackathon, set to engage over 200 students from the DC area.

Bethel Campus Fellowship

January 2024 - Present

Men's Fellowship Coordinator

Howard University

- Serve as a CoLabourer, organizing events such as Men's Fellowship and Bible studies, fostering community engagement and support within the fellowship.

COMMUNITY OUTREACH AND SERVICE

Project Lead the Way (PLTW)

2020 - 2021

Student Leader

Columbia, Maryland

- Led field trips for minority middle school students, introducing them to engineering concepts through interactive exercises and demonstrations.

Redeemed Christian Church of God

2016 - Present

Volunteer

Washington, D.C.

- Participated in Christmas toy drives, food and clothing drives, delivering essentials to families and supporting community welfare.

Black Student Union

2018 - 2022

Member

Columbia, Maryland

- Assisted in organizing community events and presented at a Black History Month presentation, educating on significant historical contributions.

Alpha Achievers

2018 - 2022

Executive Board Member

Howard County, Maryland

- Led community service initiatives, including food and clothing drives, and organized school activities such as half-time events, promoting camaraderie among Black male students in the county.

General Community Service

2016 - Present

Volunteer

Various Locations

- Dedicated to community initiatives across Maryland and Washington, D.C., engaging with organizations like the NAACP, NSBE, and Howard University groups, contributing through food drives, clothing distributions, freshman move-in assistance, and community cleanups.

COMPUTER SKILLS

Coding Languages

- Python (5 years), C++ (3 years), Julia (2 years), Swift, Kotlin, React Native

Developer Tools

- VS Code, Xcode, Android Studio, GitHub, Autodesk, Microsoft Suite, Paraview, AWS

REFERENCES

Dr. Su Yan, Assistant Professor, Howard University

su.yan@Howard.edu

Mr. Ronald Smith, Director of the Karsh STEM Scholars Program

ronald.smith1@howard.edu

Dr. Pin Chen, Jet Propulsion Laboratory, Science Division

pin.chen@jpl.nasa.gov

Dr. Dan Congreve, Assistant Professor of Electrical Engineering, Stanford University

congreve@stanford.edu