NYASHA MILANZI

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ACCOMPLISHMENTS AND SKILLS

- **Experience:** *2 years of research* and work experience in energy, environment, engineering, policy, and economics.
- **Grants and Funding:** Awarded *$140, 000* in scholarships and research grants from Mastercard Foundation, Michigan Tech, etc.
- **Technical skills:** <u>Statistics:</u> Excel, R, SPSS, Power BI | <u>Programming:</u> Python, Java, and Matlab | <u>Other:</u> ArcGIS, Nvivo, Qualtrics

EDUCATION

Michigan Technological University| M.S. Sustainable Communities | Houghton, MI**| expected April 2025**

- Concentrations: Stakeholder Engagement; Minor in Natural Resource and Environmental Economics; Minor in Geoinformatics
- Completed 32 large dataset projects and 7 international science conference presentations.

Ashesi University | B. S. Electrical and Electronic Engineering | Accra, Ghana | May 2023

- Concentrations: Power Systems and Energy Policy | Honors: Mastercard Foundation Scholarship | Won a $3.5k research award.

PROFESSIONAL EXPERIENCE

Michigan Technological University – Researcher; Houghton, MI   September 2023 - Present

- Led surveys and interview deliverables on a $1.2 million REJUST project funded by the Environmental Protection Agency (EPA). Collaborating with 13 researchers to help a community transition to renewable energy.
- Designed an 81-question survey on energy and environment that received over 200 responses. Utilized Excel, SPSS, and Power BI to perform statistics and data visualizations. Deliverables included: 3 presentations, 1 report, and 2 research papers.
- Conducted 32 expert interviews with government, businesses, and academia to identify community priorities. Analyzed 400+ pages of transcripts using NVivo, resulting in a research paper and a report.

Graham Sustainability Institute & City of Ann Arbor – Buildings Consultant, Ann Arbor, MI   May 2024 - July 2024

- Selected as one of the 10 graduate students statewide to support Michigan local governments achieve their climate and sustainability goals through funding from the Michigan Department of Environment, Great Lakes, and Energy.
- Performed life cycle assessments (LCA) and life cycle cost analyses on 35 heating and cooling system upgrades. Developed 8 recommendations for decarbonizing buildings in the city and presented findings through a presentation and a report.

American Geophysical Union (AGU) – Science Communicator; Washington, DC   April 2024 - Present

- Selected as one of the 40 AGU fellows in North America (worth over $5000) to communicate science with public audiences.
- Curated a social media outreach campaign that fundraised for diverse environment libraries, valued at $1k for 140 low-income students. Completed 32 end-to-end outreachs and directly impacted 400+ people.

Power for All – Sustainable Agriculture Consultant; San Francisco, CA   June 2023 - August 2023

- Completed a sustainability analysis of the agricultural policies of 49 countries in Africa.
- Launched the Powering Agriculture with Renewable Energy report at New York Climate Week.

Global Energy Monitor – Africa Gas Tracker Consultant; Covina, CA   June 2022 - August 2022

- GEM is in the top 100 geospatial organizations that develop data on the world's energy systems, assets, and infrastructure.
- Conducted research on 160 gas power plants in Africa, work highlighted in the Scramble for Africa Gas policy brief.

OTHER EXPERIENCES

Secretary, International Association for Society and Natural Resources at MTU   September 2024 - Present
Co-founder and Grants Manager, Dande Foods Limited, Harare, Zimbabwe   January 2023 - Present
Founder and President, Ashesi Student Energy Club, Accra, Ghana   January 2022 – September 2023
Environmental Standards Consultant, Innovex, Kampala, Uganda   May 2021 - Aug 2021
STEM Education Consultant, Tripple Bottom Line, Nairobi, Kenya   June 2020 - August 2020