

KENECHUKWU EZEIFE MEELU

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EDUCATION

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- New York University Abu Dhabi**, Abu Dhabi, United Arab Emirates **May 2023**
- Bachelor of Science in Mechanical Engineering, Economics (Minor) **Current GPA: 4.0**
 - Relevant Coursework: Statics, Dynamics, Solid Mechanics, Fluid Mechanics, Conservation Laws; Foundations of Science 1 & 2, Multivariable Calculus, Design & Innovation and Markets.

RELATED WORK EXPERIENCE & PROJECTS

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- Research Assistant*, **Vijay Lab - Heatsink Lattice Optimization**, NYU Abu Dhabi **March 2021 - Present**
- Researched the use of Cubic and TPMS lattices to improve heat transfer efficiency in heat-sinks of electronic devices in the micro and nano-scale.
 - Designed various lattice structures such as FCC and BCC using SolidWorks and ran heat transfer simulations using COMSOL application.
 - Examined different TPMS structures such as Primitive and Fischer-Koch S to determine the most effective heatsinks at different heat inputs and fan speeds.

- Member*, **NYUAD iGEM Competition team**, United Arab Emirates **March 2021 – Present**
- Collaborate with staff and student members in both the engineering and biology team to design a Point of Care (POC) device to detect fungal infections in amphibians.
 - Conduct research to determine relevant parts to purchase and use in the construction of the POC device.

- Research Assistant*, **Shaker Test of Lunar Camera**, NYU Abu Dhabi **Nov. 2020 - Present**
- Assessed the ability of a camera to withstand mechanical failure during space travel through vibrational testing at different frequencies.
 - Logged data from the shaker's accelerometer to compare camera's performance against the given guidelines.

- Research Assistant*, **TurtleBot Landscape Orientation**, NYU Abu Dhabi **March 2020**
- Assisted in a Capstone project that involved simultaneous localization and mapping through obstacle detection.
 - Assembled and controlled a TurtleBot robot using Robot Operating Software (ROS) language and VNC viewer software.

- Team Captain*, **Interswitch Innovation Challenge**, Lagos, Nigeria. **Aug. 2018 – Sept. 2018**
- Incorporated S.T.E.M skills and real-life observations to formulate a user friendly application to improve the Nigerian Public Transport System.
 - Prepared presentation using visual and audio media to pitch formulated ideas to potential investors.

AWARDS/ACCOMPLISHMENTS

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- 2nd Best in Nigeria*, **2019 West African Senior School Certificate Examination**. **Dec. 2020**
- Out of the approximately 346,098 students that sat for the 2019 national high school certification examination, I emerged the candidate with the second best score in Nigeria.
- 3rd Position*, **2018 Interswitch SPAK Innovation Challenge**. **Sept. 2018**
- Out of the 11,412 students who entered the preliminary stages of this competition, my team of eight other students emerged in the third position.

SKILLS

Technical/Computer Skills: C/C++ (Advanced); MS Office (Advanced); SolidWorks (Advanced); Python (Advanced); COMSOL (Intermediate); MATLAB (Intermediate); Web Designing (Advanced: Personal Portfolio - keneezeife.github.io); HTML/CSS (Advanced); Machine Learning; Stata (Advanced).