Mohammed Ndiaye

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https://lowinertia.com/portfolio/mndiaye (Personnel Portfolio)

Summary

Third-year Mechanical Engineering student seeking a mechanical engineering internship for summer 2026

Education

University of Nebraska-Lincoln, Nebraska **Graduation:** September 2027
Bachelor of Mechanical engineering

Dakar American University of Science and Technology (DAUST), Somone, Senegal
Bachelor of Mechanical engineering, Sophomore, GPA: 3.75

Work Experience

University of Nebraska-Lincoln *Undergraduate Researcher,* September 2025-Present
Supervisor: Dr. Carl Nelson, Email: cnelson5@nebraksa.edu

- Developing an automated sandwich wrapper thar will wrap sandwiches in paper to speed up service during peak times like football games for a local restaurant.
- Using Fusion 360 & SolidWorks to design different mechanisms and 3D printing for prototyping.

Extracurricular activities

Teranga Clear Water, Somone, Senegal *Co-Founder***,** September 2024-Present

- Launched a startup with 6 people to address the problem of water filter affordability for low-income family in Somone as tap water in the area contains limestone that can leads to health issue as it is use for consumption.
- Designed a 3D printable case for the filter in Fusion 360 to produce them locally by using food grade filament.
- Developing an affordable pump to maximum the use of the reverse osmosis cartridge.

Mechathon, Somone, Senegal *Co-Founder***,** January 2024-Present

- Launched a CAD competition at DAUST for mechanical engineers and CAD enthusiasts after remarking on a lack of opportunity for mechanical engineers to show their skills in Senegal, as in contrast for computer scientists with hackathons.
- Of 32 participants ,4 were selected as the winner and shared 17000 XOF (300$) as prize. Participants were divided by class level. They had to brainstorm and design objects to solve problems posed by the challenge.

Project

Design project (I &II), **Dakar American University of Science and Technology**, Somone, Senegal. September 2023- May 2025
Instructor: Dr.Sidy Ndao, Email: sndao@daust.org

- Designed and built an underwater drone for the exploration of the Joola (a ship that sank in Senegal in 2002) as part of a design project class with a team of 5 people including me.
- Designed, in fusion 360, full model including the case (motor holder) which was 3D printed. Pixhawk, with Arduino and motor driver were used to control navigation with 4 motors. The Raspberry Pi is connected to a USB camera and to a computer with an ethernet cable to handle communication and transmitting images in real time.
- Built a prototype and won “The Most Outstanding Performance in Sophomore level” during DAUST impact on 30 different projects.

Skills

Technical Skills: *Intermediate* - CAD (Fusion 360), 3D Printing (K1 Max, Ender 3 Pro, Creality Adventurer 3M Pro), B*asic programming* (C++, Python), Familiar with Arduino and Raspberry Pi
Languages: Fluent French, Wolof, English, and basic Arabic