

## Mohammed Ndiaye – US Citizen

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### Summary

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

### Education

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**University of Nebraska-Lincoln**, Nebraska

**Graduation:** September 2027

Bachelor of Mechanical engineering, GPA: 3.75

**Dakar American University of Science and Technology (DAUST)**, Somone, Senegal

Bachelor of Mechanical engineering, sophomore

### Work Experience

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**University of Nebraska-Lincoln**

*Undergraduate Researcher*, September 2025-Present

*Supervisor:* Dr. Carl Nelson, Email: [cnelson5@nebraksa.edu](mailto:cnelson5@nebraksa.edu)

- Developed an automated sandwich wrapper that will wrap sandwiches in paper to speed up service during peak times like football games for a local restaurant.
- Designed different mechanisms of the device using Fusion 360 & SolidWorks and 3D printed it afterwards.

### Project

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**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](mailto: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, a full model including the case (motor holder), which was 3D printed.
- Implemented a navigation system composed of Pixhawk (ARduSub), Raspberry pi (BlueOS) and a computer (QGroundcontroller)
- Built a prototype and won “The Most Outstanding Performance in Sophomore Level” during DAUST impact on 30 different projects.

### Extracurricular activities

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**Mechathon**, Somone, Senegal

*Co-Founder*, January 2024-Present

- Created a CAD competition at DAUST for mechanical engineers and CAD enthusiasts after noticing a lack of opportunity for mechanical engineers to show their skills in Senegal, as opposed for computer scientists with hackathons.
- Raised 17000 XOF (\$300) in cash prizes that were distributed to the 4 selected winners out of the 32 participants.

**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 families in Somone, as tap water in the area contains limestone that can lead to health issues as it is used for consumption.
- Designed a 3D printable case for the filter in Fusion 360 to produce them locally by using food grade PLA filament.
- Developed an affordable pump to maximize the use of the reverse osmosis cartridge.

### Skills

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**Technical Skills:** *Intermediate* - CAD (Fusion 360, SolidWorks), 3D Printing (K1 Max, Ender 3 Pro, Creality Adventurer 3M Pro), *Basic programming* (C++, Python), Familiar with Arduino and Raspberry Pi

**Languages:** Fluent French, Wolof, English, and basic Arabic