ONITIANA M. RAZAFIMINO
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OBJECTIVE

Ambitious and hard-working student eager to pursue research and make an impact in the field of robotics.

EDUCATION

Mississippi State University, Starkville, MS **May 2025**
Bachelor of Science in Aerospace Engineering
Overall GPA: 3.87/4.0

HONORS AND AWARDS

Mississippi State University

- President's List in Spring 2023 and Fall 2024
- Dean's List in Spring 2024
- Transfer Scholarship
- Phi Theta Kappa Scholarship
- Transfer Non-Resident Tuition Scholarship

Gadsden State Community College

- President's List in Fall 2021 and Spring 2022
- Outstanding Student in Mathematics and Pre-engineering

WORK EXPERIENCE

Content Creator, YouTube (@Mino Razafimino) **February 2025 – Present**

- Explain how different types of path-finding algorithms work
- Implement these algorithms on Python

Prospective Graduate Research Assistant, Autonomous Systems Lab, Starkville, MS **November 2024 – Present**

- Implement Euler solver and RK4 solver on Python (Euler solver and RK4)
- Develop a code simulating the effect of integrators on second-order systems

LEADERSHIP AND INVOLVEMENT

Artificial Intelligence Club, Mississippi State University, Starkville, MS **September 2024 – December 2024**

- Promoted the ethical use of Artificial Intelligence and Machine Learning

ACADEMIC EXPERIENCE

Effect of Riblets on propeller blades research, Applied Aerodynamics and Aeroacoustics Research Group **August 2024 – Present**

- Implementing MATLAB code to interpret acquired data
- Modeling of 3-D vortex generators using SolidWorks
- 3D-printing vortex generators by placing them on propeller blades to test their effect on drag

Panel Manufacturing Project, Patterson Laboratory, Starkville, MS **August 2024 - December 2024**

- Modeled a 10"x8" panel and its stiffeners on SolidWorks similar to those found in actual aircraft fuselages

- Manufactured the aluminum panel previously modeled through SolidWorks using folding and drilling machines, while adhering to safety rules
- Tested the resistance of the stiffened panel using the Universal Testing Machine Shimadzu
- Used Abaqus to visualize the crippling of the panel

Vibrations project, Mississippi State University, MS **August - December 2023**

- Modeled graphs of damped, undamped, and forced vibrations using MATLAB
- Implemented a graph showing a paint can trajectory with varying mass using the Ordinary Differential Equations solver function on MATLAB

SKILLS

Languages: Trilingual: French, Malagasy, English
Programming languages: Python, MATLAB, C++, JavaScript, G-Code
Tools: AutoCAD, SolidWorks, Abaqus, ANSYS, LabVIEW
Web Framework: Django

CERTIFICATES

IBM

- Python for AI and Development Projects **July 3, 2022**
- Introduction to Cloud Computing **March 25, 2022**

OPENCLASSROOMS

- Retrieve Data Using SQL **August 28, 2020**