

Benjamin J. Loney Siles

Ann Arbor, MI
benjohnl@umich.edu | (734) 730-7450

EDUCATION

University of Michigan

Bachelor of Nuclear Engineering and Radiological Sciences

GPA: 4.00/4.00

Ann Arbor, MI

Expected graduation: Spring 2026

- Coursework: Introduction to Autonomous Systems, Honors Calculus II, Honors Physics I

Unidad Educativa Titos Linde High School

Diploma; GPA: 4.00/4.00

Cochabamba, Bolivia

December 2021

- Class Valedictorian
- Participated in several physics olympiads:
 - Bolivian Plurinational Student Scientific Olympiad, *Gold (2018), Silver(2019)*
 - National Bolivian Physics Olympiad, *4th (2020), 2nd (2021)*
 - European Physics Olympiad, *Participation (2021)*
 - Iberoamerican Physics Olympiad, *Honorable Mention (2020), Silver (2021)*

WORK EXPERIENCE

University of Michigan NERS Department

Undergraduate Student Researcher

Ann Arbor, MI

February 2023- August 2023

- Performed computational work to expand on knowledge regarding natural nuclear phenomena
- Operated Helios 1d Physics Simulator to obtain information for processing
- Utilized MATLAB features to organize, analyze and interpret data

McDonald's

Crew Member

Ann Arbor, MI

February 2022- August 2022

- Diligently engaged in work to deliver adequate customer service
- Named June 2022 Employee of the Month

Fundación Justicia Social

Part-Time Volunteer

Cochabamba, Bolivia

February 2018- December 2021

- Tended to transportation of necessities to people in rural areas.
- Engaged in data entry-analysis

PROJECT EXPERIENCE

University of Michigan Solar Car Project Team

Member-Aerodynamics Subdivision

Ann Arbor, MI

September 2023- Present

- Modeled aerodynamic body according to competition standard
- Interacted with aerodynamic simulation
- Collaborated with other team members to optimize aerodynamic and energy efficiency

Autonomous Drone

Software Engineer

Ann Arbor, MI

September 2022- December 2022

- Engineered code on an autonomous drone that would map forests on mountainous terrain with Python
- Designed 3D flying environments for simulation in Unreal Engine 4
- Prepared technical presentation for an audience of fellow engineering students

ACTIVITIES

M-STEM (M-ENGIN), *Member*

June 2022 - Present

Society of Hispanic Professional Engineers, *Member*

August 2022-Present

Society of Physics Students, *Member*

August 2023- Present

Hughes Space School, *Member*

February 2021

SKILLS

Computer: Siemens NX, Arduino, Python, C++, MATLAB, Helios 1D, Blender 3D

Languages: Proficient in Spanish