

ARTEMIS M. HERNANDEZ GUZMAN

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EDUCATION

Bachelor of Science in Mechanical Engineering

December 2024

Georgia Institute of Technology | Highest Honors (GPA 4.0/4.0)

Atlanta, GA, USA

WORK EXPERIENCE

Prototyping Intern | SeaSpark Energy

October 2024 – January 2025

- Advanced R&D of patent-pending Wave Energy Converter (WEC) systems with prototyping and numerical modeling.
- Facilitated testing of small-scale prototype and provided critical technical insight towards future design modifications.

Mechanical Engineering Intern | NASA Jet Propulsion Laboratory (JPL)

352B – Entry, Descent, & Landing and Formulation

May 2024 – July 2024

- Developed models and performed data analysis for Mars Sample Return (MSR) parachute support system testing.
- Supported testing execution, proposed and implemented test setup improvements, and reviewed test plans.

352M – Mechanical Systems & Technology

May 2023 – December 2023

- Designed two Mechanical Ground Support Equipment (MGSE) accessories for the MSR Sample Retrieval Lander (SRL).
- Collaborated with skilled engineers to establish requirements, develop prototypes, and document design decisions.
- Demonstrated technical proficiency, effective communication, and adaptability in design reviews with SMEs.

Customer Experience Sampling Intern | Lenovo

January 2022 – July 2022

- Completed 17 rigorous product inspections and teardowns at Lenovo's Product Quality Engineering (PQE) lab.
- Collaborated with international teams and adopted customer perspective to anticipate, analyze, and resolve defects.

ACADEMIC EXPERIENCE AND PROJECTS

Heat Sink Thermal Analysis Project | Georgia Institute of Technology

April 2023 – May 2023

- Modeled a heat sink numerically in MATLAB and COMSOL to evaluate thermal performance under peak conditions.
- Verified findings using a 1D analytical model, established error margins, and delivered a detailed report discussing results to inform design improvements.

Robotics Competition Team Lead | Georgia Institute of Technology

August 2021 – December 2021

- Managed the team structure, project timeline, and report completion of a group of five for a robotics competition.
- Spearheaded the technical development of the competition robot by designing two mechatronic subsystems containing DC motors, pneumatics, and solenoids, and programming the robot's control system (C++/Arduino).

Prototyping Instructor (Volunteer) | Flowers Invention Studio

December 2019 – December 2024

- Empowering community members of the largest student-run makerspace in the U.S. by leading comprehensive tool trainings, providing design guidance, maintaining equipment, and helping to bring projects to life.
- 3D Print Apprentice (January–December 2021) – specialized training with focus on advanced 3D printing techniques.

RELEVANT SKILLS

- CAD/Design:** SOLIDWORKS, NX, Teamcenter, GD&T (Beginner), Fusion 360 (Beginner), AutoCAD (Beginner)
- Programming:** MATLAB, Python (Beginner), C++/Arduino (Beginner), Java 11 (Beginner)
- Software & Tools:** Simulink (Beginner), Microsoft Office Suite, Git, OOP principles, HTML 5, CSS 3
- Hands-on:** 3D Printing, Laser Cutting/Engraving, Rapid Prototyping, Workshop Tools, Waterjet, Lathe, Manual Mill, MIG Welder, Oscilloscope, Scanning Acoustic Microscope, Soldering
- Languages:** English (Fluent), Spanish (Fluent), French (Beginner)

AWARDS AND OTHER EXPERIENCES

Math Tutor at Mathnasium | April 2025 – Present

Wilderness Travel Course | January 2025 – March 2025

Machine Design Teaching Assistant/Grader | Fall 2024

AIAA Member | September 2022 – Present

Study Abroad (Metz, France) | August 2022 – December 2022

MATLAB Teaching Assistant | August 2020 – December 2021