ARTEMIS HERNANDEZ GUZMAN (*SHE/THEY*)

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OBJECTIVE

Seeking graduate program in Mechanical/Space Engineering starting Fall '25. Interning at NASA JPL Summer '24. If you need a compassionate, perseverant, and future-focused leader with a diverse technical background, you've found the right person.

EDUCATION

Georgia Institute of Technology | Atlanta, USA   August 2019 – Present
- Bachelor of Science in Mechanical Engineering (GPA: 4.0)   Expected Graduation: December 2024

WORK EXPERIENCE

Mechanical Engineering Intern | NASA Jet Propulsion Laboratory (JPL)

352B – *Entry, Descent, & Landing and Formulation*   May 2024 – Present
- Working with Cog-E's in the design, analysis, and data collection process for parachute support component testing.

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

MATLAB Teaching Assistant | College of Computing at Georgia Tech   August 2020 – December 2021
- Led a team of 30+ TAs and professors as Head TA (Summer 2021) and Senior TA (Homework Team, Fall 2021).
- Held weekly recitations and office hours, wrote and proofed assignments, and developed team productivity software.

ACADEMIC EXPERIENCE AND PROJECTS

Acoustic Characterization Research | Georgia Tech – Europe   August 2022 – December 2022
- Performed Scanning Acoustic Microscopy (SAM) experiments to characterize composite microstructures and coatings.
- Applied analytical models in MATLAB to obtain properties and communicated results with presentations and a report.

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 by programming the robot's control system (C++/Arduino).

Prototyping Instructor (Volunteer) | Invention Studio at Georgia Tech   December 2019 – Present
- Empowering community members of the largest student-run makerspace in the US 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, Autodesk Fusion 360 (Beginner), AutoCAD (Beginner)
- **Programming**: MATLAB (Intermediate), Java 11 (Beginner), C++/Arduino (Beginner)
- **Software**: Microsoft Office (Word, PowerPoint, Excel), Git, OOP principles, HTML 5 and CSS 3
- **Hands-on**: Rapid Prototyping (3D Printer, Laser Cutter/Engraver), Experiment Design, Workshop Tools (Wood and Metal), Waterjet, Lathe, Vertical Mill, MIG Welder, Oscilloscope, Scanning Acoustic Microscope, Soldering
- **Languages**: English (Fluent), Spanish (Fluent), French (Beginner)

AWARDS AND OTHER EXPERIENCES

AIAA Student Member | September 2022 – Present   Faculty Honors | Fall 2019, '20, '21, '22; Spring 2020, '23

Hispanic Scholarship Fund Scholar | 2020-21, 2021-22   Study Abroad (Metz, France) | Fall 2022