

MAX HERNANDEZ GUZMAN (THEY/THEM)

mhernandez71@gatech.edu | +1 (470) 203-9266 | U.S. Citizen | LinkedIn: [mhernandez71](#) | Portfolio: mt.hdez.org

OBJECTIVE

Enthusiastic mechanical engineer with a hunger for progress. If you need a hard-working, compassionate, and down-to-earth leader with a wide array of experiences, you've found the right person. Seeking mechanical design internship for Summer '24.

EDUCATION

Georgia Institute of Technology | GPA: 4.0

August 2019 – Present

- Bachelor of Science in Mechanical Engineering

Expected Graduation: December 2024

WORK EXPERIENCE

Mechanical Engineering Intern | NASA Jet Propulsion Laboratory

May 2023 – December 2023

- Designed two Mechanical Ground Support Equipment (MGSE) accessories for the Mars 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.

Portfolio Projects | Personal Projects

August 2017 – Present

- Engaging in rapid, iterative prototyping to design efficient solutions for everyday problems (SOLIDWORKS).
- See Lumi, The Bikar, Laptop Support, Headphone Repair, and more in my self-made portfolio at mt.hdez.org.

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, HTML 5 and CSS 3, Cura, OOP principles
- 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, Sewing Machine
- Languages:** English (Fluent), Spanish (Fluent), French (Beginner)

AWARDS AND OTHER EXPERIENCES

AIAA Student Member | September 2022 – Present

Hispanic Scholarship Fund Scholar | 2020-21, 2021-22

Faculty Honors | Fall 2019, '20, '21, '22; Spring 2020, '23

First-Year Activities Board | Fall 2019 – Spring 2020