MAXIMILIANO T. HERNANDEZ GUZMAN

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OBJECTIVE

Enthusiastic Mechanical Engineering student; driven by a hunger for progress and innovation. Looking to gain experience in the Aerospace, Robotics, and Automotive industries, and to continue studies in mechanical systems.

EDUCATION

Georgia Institute of Technology | GPA: 4.0   2019 – Present
- Bachelor of Science in Mechanical Engineering (Projected: 2023)
- Applying for Minor in Computer Science
- Related Coursework: Statics, Thermodynamics, Circuits, Computing Techniques, Engineering Materials, Calculus (I, II, and III), Linear Algebra, Differential Equations, Physics (Mechanics, E&M), General Chemistry, MATLAB Programming, Engineering Graphics

ACADEMIC EXPERIENCE

Undergraduate Teaching Assistant | College of Computing at Georgia Tech   August 2020 – Present
- Supporting 50+ students in their Computing for Engineers (MATLAB) course.
- Augmenting students' learning by:
    o engaging in distanced teaching methods,
    o writing, editing, and proofing homework assignments,
    o working with 30+ other TAs to evaluate student learning progress, and
    o developing software to improve team functionality.

Prototyping Instructor | Flowers Invention Studio   December 2019 – Present
- Instructing, assisting, and leading users of the Flowers Invention Studio.
- Knowledge of various tool groups, designing strategies, and problem-solving techniques used on a regular basis.

Numerical Methods Projects | ME2016 @ Georgia Institute of Technology   Fall 2020
- Engaged in four different analyses involving numerical models of real-world scenarios.
- Ample usage of intermediate MATLAB techniques.

The Puffin | ME1770 @ Georgia Institute of Technology   Spring 2020
- Designed and 3D modelled (SOLIDWORKS) an amphibious vehicle as part of a team project.
- Completed engineering drawings, a report, and a product presentation.

RELEVANT SKILLS

- Exposure to these tools: 3D Printer (FDM, SLA), Laser Cutter/Engraver, Waterjet, Metal and Wood Lathe, Vertical Mill, MIG Welder, Workshop tools (Drill press, Miter saw, Hand tools, etc.), Oscilloscope, Sewing Machine
- Application of these soft skills: Problem solving, Critical thinking, Time management, Team leadership, Project management, Time management, Public speaking, Bilingual (English, Spanish)
- Work with these programming languages: MATLAB (Intermediate), JavaScript (Novice)
- Experience with these computer programs: SOLIDWORKS, Autodesk Fusion 360, Microsoft Office (PowerPoint, Excel, Word), HTML and CSS

AWARDS

- Hispanic Scholarship Fund Scholar | 2020-21
- Faculty Honors | Fall 2019 – Fall 2020