

Valentina Herrera Molano

Recent Graduate in Simulation Engineering, Salutatorian
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https://www.linkedin.com/in/valentinaherreramolano/?locale=en_US | [Portfolio](#)

PROFESSIONAL SUMMARY

Detail-oriented engineer passionate about developing user-focused products. Experienced in problem-solving through rapid prototyping, CAD design, and digital fabrication. Skilled in SolidWorks, 3D printing, and PCBA. Eager to gain hands-on experience in a real-world engineering setting to innovate, be creative, and generate quality results.

SKILLS

- SolidWorks, Inventor, OnShape, Eagle, Arduino, Soldering, 3D printing, Laser cutting, PCB milling with CNC machine, PCBA, Python, C++, C#, Unity, Unreal, Trello, GitHub, Microsoft Office Programs
 - English (Proficient), Spanish (Native)
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ACADEMIC PROJECT EXPERIENCE

Role: Product Design Engineer

June 2025 - July 2025

- Fabricated a smart pill dispenser with clock and alarm functionality.
- Modeled and assembled the product in SolidWorks to perform detailed motion studies and ensure mechanical accuracy.
- Designed, printed, and assembled a custom PCB, soldering and integrating the microcontroller with all electronic components.
- 3D printed all structural components and performed final assembly of the complete prototype.
- Integrated and tested all subsystems to verify full product functionality.

Role: Digital Fabrication Specialist

December 2024 - February 2025

- Developed a six degrees of freedom (6DOF) motion platform.
 - Designed base components and assembly in SolidWorks to perform motion studies and obtain precise mechanical measurements.
 - Designed, soldered, and assembled a custom PCB, integrating servo motors, a battery holder, and a microcontroller for system control.
 - 3D printed all designed components and assembled the full mechanical structure.
 - Built and tested the platform, achieving a fully functional prototype with smooth and responsive motion.
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OTHER EXPERIENCE

Global Impact Technology Leader - Inventor

February 2018 - May 2023

Robotic Minds, Ecuador

- Collaborated on team projects to design and prototype tech inventions using OnShape, Arduino, and digital fabrication.
 - Developed user-centered innovations with positive community impact.
 - Volunteered to inspire and engage girls in STEM through school outreach activities.
 - Earned honors or awards in 90% of youth technology competitions participated in.
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EDUCATION

Bachelor of Science in Simulation & Visualization (B.S.)

September 2025

Full Sail University, Winter Park, FL

Simulation Engineering.

GPA: 3.99.

CERTIFICATIONS

Certified SOLIDWORKS CAD Design Professional.