

Luis Barcenas

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MI

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EDUCATION

University of Michigan, Ann Arbor, MI

Bachelor of Science in Engineering

May, 2026

EXPERIENCE

University of Michigan Architecture, Engineering and Construction, Ann Arbor, MI

Engineering Intern

May 2024 - Jan 2025

- Coordinated with engineers to improve chilled water repair and maintenance processes to design 50+ comprehensive metering drawings.
- Conducted field surveys to identify and mark areas of interest for fire safety, including the precise location and status of fire dampers, enhancing overall safety compliance and system effectiveness.

Projects

Design and Manufacturing Class II, Ann Arbor, MI

Student

Jan 2024 - May 2024

- Engineered a custom linkage mechanism to meet specific motion requirements, optimizing for both weight and cost efficiency.
- Created detailed manufacturing documents, including a bill of materials, precise engineering drawings and a wiring schematic.
- Tuned and calibrated a PID control system for optimized linkage movement, as well as performing friction voltage (stall voltage) tests to ensure smooth operation.

Design and Manufacturing Class III, Ann Arbor, MI

Student

Date - Date

- Collaborating on the conceptual design of a robust and reliable door system for crewed lunar landers to support human and cargo ingress/egress.
- Developed CAD using inspiration from existing gooseneck hinges to design a custom hinge for the lunar lander door.
- Preparing design reviews and technical reports to document progress, analyses and recommendations. Ensuring alignment with project objectives and stakeholder needs.

SKILLS

Manufacturing: 3D printing, lathe, mill

Modeling: MATLAB, SolidWorks, AutoCAD, Microstation

Organization: Technical reports, manufacturing plans, bill of materials