

# Gabriela Oyarzún Batlle

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## EDUCATION:

**Northwestern University**

**Evanston, IL**

BS in Mechanical Engineering w/ Design concentration, Segal Design Institute Certificate.

**Expected Graduation:** June 2025

- **Academic Awards:** Outstanding Communication Award, Design Thinking and Communication fair (Winter 2022), Dean's List Honors (Spring 2024).
- **Relevant Coursework:** Design Thinking and Communication, Visual Thinking for Design, Design Sketching, Engineering Analysis I, II, III, and IV, Intro to Mechanical Design and Manufacturing, Fluid Mechanics, Dynamics of Machines, Embedded Programming in Python, Heat Transfer, Thermodynamics, Graphic Design Foundations Studio (Fall 2023, DIS Study Abroad).

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## SKILLS:

**Computer:** Solidworks CAD, NX, MATLAB, Python, Microsoft Office, Photoshop, Illustrator, InDesign.

**Languages:** Spanish (Native), English (Fluent), Italian (Conversational), German (Elementary), Danish (Elementary)

**Machining:** Lathe, Mill, Band Saw, Horizontal Band Saw, Metal Shear, Sheet Metal Bender, Drill Press, Laser Cutter.

**Soft Skills:** Teamwork, Flexibility, Perseverance, Action-Oriented, Trustworthy, Detail-oriented, Time management.

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## EXPERIENCE

**Northwestern University's Segal Design Institute**

Shop Trainer:

September 2022 - Present

- Supervises students in shop machinery operation and safety.
- Advises on designs for manufacturing in collaboration with shop managers and other trainers.
- Trains university students on different machining techniques.

**Baja SAE, Car Team**

New Member Trainer:

September 2022 - January 2023

- Trained new team members in Solidworks CAD and machining techniques.

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## RELEVANT PROJECTS

**CNC Mill Bracket, ME 240**

March 2023 - June 2023

- Redesigned based on requirements and data collected through testing, in collaboration with two teammates, a mounting bracket that can be attached to a mini CNC milling machine, to accommodate a sensor.
- Utilized NX for design, conducted FEA tests, and 3D printed product iterations.

**CVT Cover, NU Baja SAE**

September 2022 - May 2023

- Designed a CVT cover for an off-road car to meet competition rules.
- Utilized Solidworks CAD software to design.
- Ensured the CVT remained inaccessible for safety compliance, and met competition rules. The car achieved 8th place at the competition.

**Seatbelt Boxes, NU Baja SAE**

January 2022 - May 2022

- Designed and manufactured seatbelt boxes for an off-road car to cover holes in the firewall made to strap on seatbelts, to meet competition rules.
- Utilized Solidworks CAD software to design. Waterjetted and bent sheetmetal to manufacture design.
- Ensured safety compliance by covering the holes in case of a motor malfunction. Achieved 8th place at the competition.