

# Mateo Zitella

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## Education

### Northeastern University

Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering

May 2027

**Relevant Coursework:** Cornerstone of Engineering 1 and 2, Physics for Engineering 1 and 2, Calculus for Engineering 2 and 3, Statics, Mechanics of Materials, Thermodynamics

**GPA 3.61**

**Achievements:** Dean's List

## Experience

### JACK's Realty

Greenwich, CT

Intern

May 2023 - June 2023

- Created social media advertisements using Adobe Illustrator for long-term stay housing in Southeast Florida
- Used Microsoft Excel to collect housing data from Zillow and Redfin on properties in Florida
- Analyzed data on housing markets in Southeast Florida and Las Vegas to assist in writing JACK's annual report for investors in Microsoft Word.

## Leadership & Activities

### Nasa Student Launch Initiative

September 2024- Present

- Collaborate with a team of 7 to design fin mounts for a 4.85' subscale rocket in SolidWorks and Onshape
- Design and simulate a subscale rocket model using OpenRocket to analyze flight performance and stability

### Forge Product Development Lab

September 2024- Present

- Collaborate with a team of 7 to design a smart cane with a height-changing mechanism for navigating stairs
- Develop a telescopic actuator height-changing mechanism with body tube linkage and collaborate with others to part spec motors and other components of the cane

### Northeastern University Combat Robotics Club

January 2024 - Present

- Designed a 1-pound robot in Solidworks with the goal of maximizing destructive and defensive capabilities while minimizing weight
- Researched successful designs in higher weight classes and worked on a team to generate and apply different ideas for the robot's design
- Soldered electronics including a drive ESC, weapon ESC, two drive motors, weapon motor, and a switch
- 3D printed and assembled the robot's frame and electronics

### Northeastern University Electric Racing Club - Steering & Suspension Subteam

January 2024 - March 2024

- Learned about mechanisms and design choices in top FSAE cars
- Wrote short research papers on placements of different components and the effects on handling suspension
- Contributed to physically building the car in a shop environment by preparing stock for CNC machining and welding for the car's chassis

### Coffee For Good Volunteer

January 2022 - January 2023

- Assisted people with special needs in completing coffee shop tasks such as taking customer orders, restocking goods, washing and emptying the dishwasher, and cleaning the store before closing.
- Demonstrated strong interpersonal skills interacting with customers and families of people with disabilities in a fast-paced environment
- Demonstrated a warm, encouraging attitude to help disabled people manage feelings of overstimulation

## Skills

**Technical:** Solidworks, Onshape, Fusion360, AutoCAD, Microsoft Office, Google Suite, Matlab, Adobe Illustrator, Rhinoceros, Openrocket, Arduino, Soldering, 3D printing, Laser cutting, Woodworking

**Programming Languages:** C++, Python, CSS, HTML, JavaScript

**Language:** English (Fluent), Spanish (Fluent)

**Certifications/Licenses:** CPR/AED/First Aid certification, Driver's License

**Interests:** robotics, digital art, drawing, painting, weight lifting