

Justin Steenstra

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Education

Northeastern University, Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering

Deans list: Fall 2022, Summer 2023

Relevant Courses: Thermodynamics, Mechanics of Materials, Statics, Differential Equations, Calc 1-3, Physics 1-2, Full Cornerstone Engineering

Clubs: Aerospace NU

Study Abroad: Northeastern University London

Present - January 2025

GPA: 3.59

January - April 2023

Barnstable High School, Barnstable, MA

Awards: AP Scholar with Distinction, Top 10% Class Standing

Clubs: CrossCountry (Captain Senior year), Chinese National Honors Society (President Senior year), Math National Honors Society (Treasurer Senior year)

Graduated June 2022

Skills

Applications: SolidWorks, AutoCAD, Arduino, Excel, MATLAB

Programming: C++, Java, Python

Fabrication: 3-D printing, laser cutting, power tools

Projects

Unibots Robotics

March 2023

NU London Robotics

- Designed and assembled an autonomous robot proof of concept and prototype with a team of 4 within 3 weeks to compete at Unibots UK
- Created a battery holder in Fusion 360 and built using 3-D printing to safely house an 11-volt lithium-polymer battery within the robot in order to be competition-ready
- Winner of the University of Cambridge Unibots UK and awarded £500

Museum Exhibit Game

October - December 2022

Full Cornerstone of Engineering

- Led a team of 4 to design and create an interactive museum exhibit game prototype for under \$40 to be presented in an engineering expo to teach students and faculty about resilient engineering
- Soldered wires to LEDs and Buttons and connected them to an Arduino board for users to be able to interact with the museum exhibit
- Integrated game display images with corresponding buttons and LEDs within MATLAB for users to have a visually interactive experience to further engage in learning
- Created a 3-month Gantt chart for the project in Excel to meet project deadlines and delegate project tasks which aided in the overall completion of our project

Pasta Bridges

September - October 2022

Full Cornerstone of Engineering

- Collaborated with a team of 4 to construct a rounded and segmented arch pasta bridge under 120 grams that supported 5 and 7 pounds, respectively.
- Created AutoCAD sketches for the segmented and rounded arch bridges to reference during construction which facilitated the construction process allowing the team to complete the project on time

Work Experience

Matakeese Warf, Barnstable, MA

July - August 2022

Dishwasher

- Maintained the cleanliness and upkeep of the kitchen by disposing of garbage, washing dishes, restocking, and organizing to pass health inspections for the restaurant to stay in business
- Prepared shellfish, asparagus, and green beans according to Barnstable food safety guidelines preventing cross-contamination so customers would come back to the restaurant

Interests

- Likes to work on cars replacing brake pads, rotors, emergency brakes, and brake fluid lines.

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- Enjoys traveling at every opportunity to experience new things and interact with new people and cultures