Sean Suleski

July - December 2024 Co-op Availability

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EDUCATION

Northeastern University | Boston, MA — May 2025

Candidate for Bachelor of Science in Mechanical Engineering, Minor in Psychology **GPA:** 3.96

Honors: University Honors Program, Dean's Scholarship Recipient, Dean's List

Relevant Courses: Heat Transfer, Control Systems, Computation and Design, Fluid Mechanics, Dynamics, Measurement & Analysis, Mechanics of Materials, Material Science, Electrical Engineering, Thermodynamics, Statics, Probability & Statistics

Activities: Generate Product Development, Forge Product Development, Club Running

Enfield High School | Enfield, CT — June 2020

Honors: Valedictorian, Math Department Scholar, Tri-M Music Honor Society (Treasurer), National Honor Society

EXPERIENCE

Amazon Robotics | Hardware Engineer Co-op | Westborough, MA — Jul - Dec 2023

- Designed an electromechanical sheet metal frame assembly in SolidWorks for a next-generation semi-automated workstation.
- Collected and analyzed conveyor testing data using Python to determine optimal speed settings for use in fulfillment centers.
- Released parts and assemblies to production level in Agile, including creating SolidWorks drawings, to be sent for manufacturing.
- Communicated regularly with an electronics manufacturer to gain information about components, influencing design decisions.

Archimedic | Engineering Co-op | Waltham, MA — Jul - Dec 2022

- Prototyped an applicator pad for a wearable lung cancer treatment that was incorporated into a human factors study of 20+ people.
- Assembled and tested 100 tissue storage devices and wrote reports confirming readiness for the next phase of development.
- Modified SolidWorks models for dental bone grafts that were approved by the client and used within a patent diagram.
- Presented research about manufacturing methods for endotracheal tubes to explain the process to a client.

Generate Product Development | Project Lead | Northeastern University — Jan 2023 - Present

- Wrote a project charter including hand-off deliverables and a Gantt chart that received approval from the client to begin work.
- Led multidisciplinary team of 13 engineers and delegated action items to ensure deadlines were met and motivation remained high.
- Mentored students in design principles, CAD, BOM management, and fabrication methods, leading to a functional prototype.

Forge Product Development | Foundations Director | Northeastern University — Fall 2021 - Present

- Designed the weekly workshop curriculum from which Forge members can receive Northeastern University credit.
- Led subject-matter student specialists to host workshops, design reviews, and provide mentorship for underclassmen's projects.
- Contacted industry experts to host speaker series presentations that teach and inspire underclassmen engineers.
- Planned and executed organizational growth goals including hiring >25% more members and doubling applications received.

PROJECTS

Fufu Pot | Project Lead — Spring 2024

- A tabletop kitchen appliance that automates the typically labor-intensive process of making fufu, a traditional West African cuisine.

WaveWise | Mechanical Engineering Technical Lead — Fall 2023

- A depth-adjustable kelp farming platform that optimizes growth by taking measurements of the surrounding ocean conditions.

Hot Date Kitchen | Hardware Engineer — Spring 2023

- A second-iteration date-cutting machine with goals of tripling production speed, improving cleanability, and ensuring food safety.

Mouthpiece Mate | Product Lab Member — Fall 2022

- A UV sanitizer box for brass mouthpieces aimed at improving healthy cleaning habits for beginner musicians.

SKILLS

Hardware: FDM/SLA 3D printing, CNC machining, sheet metal design, GD&T, Arduino, soldering, hand tools, power tools

Software/Programming: SolidWorks, ANSYS, Onshape, C++, Python, MATLAB, Java, Agile, Microsoft & Google Suite