SEAN SULESKI

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EDUCATION

Northeastern University | May 2025 | Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering, Minors in Psychology and Mathematics **GPA:** 3.944
Honors: University Honors Program, Dean's Scholarship Recipient, Dean's List
Relevant Courses: Fluid Mechanics, Dynamics, Measurement & Analysis, Mechanics of Materials, Material Science, Electrical Engineering, Thermodynamics, Statics, Differential Equations & Linear Algebra, Calculus 2-3, Physics 1-2, Chemistry
Activities: Generate Product Development, Forge Product Development, ASME, Club Running

Enfield High School | June 2020 | Enfield, CT

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

SKILLS

Hardware/Modeling

Arduino	FDM/SLA 3D Printing	OnShape
Soldering	CNC Machining	SolidWorks

Software/Programming

Java	Python	Microsoft Suite
C++	MATLAB	Adobe Suite

EXPERIENCE

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

- Prototyped an applicator pad subassembly with foamcore, plastic inflatables, and foam, which was incorporated into a human factors study of 20+ people for a wearable lung cancer treatment.
- Assembled and tested 100 tissue storage devices while following quality system procedures, and wrote reports confirming the product was ready 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.
- Contacted manufacturers to gain information about flow meters for a feasibility study about IV infiltration detection.
- Researched manufacturing methods for ET tubes and created a presentation explaining the process to a client.

Camp Overflow | Brand Designer (campoverflow.com) | East Otis, MA — Jul - Aug 2021

- Developed the website with WordPress and custom HTML/CSS to modernize the internet presence of the business and provide up-to-date information to current/prospective campers.
- Designed a modern logo using Adobe Illustrator for display on the website and products such as hats, shirts, and stickers.
- Created a responsive wireframe with Adobe XD for use as a visual guide in the development of the website.

PROJECTS

Generate Product Development | Hardware Engineer | Boston, MA — Spring 2023

- Collaborated with a multidisciplinary team of 9 engineers to iterate upon a date-cutting machine with goals of tripling production speed, streamlining the cleaning process, and ensuring all materials and processes are food safe.
- Modeled and printed fixtures using OnShape to determine the torque requirements for a motor, add tension to a blade, and attach components to 80/20 framing.
- Performed tests to inform design considerations for the physical properties of the ejection mechanism and the ideal initial height and speed of the dates prior to ejection.

Forge Product Development | Product Lab | Boston, MA — Fall 2021 & Fall 2022

- Brainstormed a list of problem statements with 5-person team, and sketched possible solutions to convey ideas visually.
- Modeled a UV sanitizer box for brass mouthpieces using SolidWorks, following principles of DFM to 3D print individual components and DFA to assemble the printed components with off-the-shelf parts.
- Connected various electrical components with wire-to-wire soldering and programmed an Arduino in C++, leading to an intuitive user interface with the intended functionality.