

Alexander Oh

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Education

Northeastern University | Boston, MA

Align M.S. in Computer Science

Sept 2022 - Dec 2024 expected

GPA: 4.0/4.0

Relevant Coursework: Data Structures and Algorithms/Systems, Object Oriented Design

B.S. in Mechanical Engineering

Dec 2019

Honors: Pi Tau Sigma Mechanical Engineering Honor Society

Skills

Languages: Java, Python, JavaScript, C, HTML/CSS, MATLAB

Technologies: Git, GitHub, Node.js, Express.js, VSCode, Figma

Experience

Northeastern University | **Teaching Assistant** | Boston, MA

Jan 2023 – Present

- TA for Fundamentals of Computer Science: Python course that teaches fundamental concepts from control flow to introductory OOD principles
- Lead lab sections, graded homework, hosted office hours and 1-1 tutoring sessions for 80+ students

Entegris | **Mechanical Engineer** | San Luis Obispo, CA

Jul 2020 - May 2022

- Project mechanical engineer for next-generation cryogenic hydrogen purifiers. Oversaw design and documentation, coordinating with project manager, manufacturing team, electrical and software teams
- Sourced OEM components, created CAD models & manufacturing drawings for entire system
- Consulted manufacturing team during pilot build, refined design, helped with assembly troubleshooting

NASA Jet Propulsion Laboratory | **Test Engineering Co-op** | Pasadena, CA

Jan 2019 - Jun 2019

- Designed ground support equipment for Perseverance Rover testbeds, collaborating with cross-functional engineering team – finite element analysts, CAD designers, manufacturing technicians, and Perseverance Rover subsystem test owners
- Conducted manufacturing readiness review with stakeholders to approve funding and manufacture of \$20,000+ worth of ground support equipment
- Prepared drilling samples for various subsystem tests across different projects as defined by test specs

Bose | **Consumer Product Engineering Co-op** | Framingham, MA

Jan 2018 - Jun 2018

- Conducted exploratory user studies to determine silicone durometer to use for new eartip design
 - Presented findings to new product development team with recommendations on how to proceed
 - Designed test fixtures and tested mechanical properties of prototype components including nitinol neckband, insert-molded acoustic mesh parts, silicone eartips
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Projects

Spotify Timeline

Jan 2023

- Built a visualizer using Node.js, Express.js, Spotify API to display a playlist's tracks in chronological release order

Puzzle Slider Game

Nov 2022 – Dec 2022

- Implemented a tile game using Python Turtle graphics that allowed a user to generate/play a 9-puzzle or 15-puzzle tile scramble game from a set of images