

Jason Li

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WORK EXPERIENCE

Serpent Robotics

Nov. 2024 – Present

Co-Founder

Philadelphia, PA

- A startup focused on developing a remotely operated robotic system for safer, more precise tree-cutting tasks.
- Co-founded a startup creating robotic systems for precise tree-cutting.
- Conducted field interviews and live tests with arborists to validate market need.
- Designed and iterated robotic systems based on real-world feedback.
- Secured \$68,000 in funding through awards and accelerators.

NASA Langley Research Center

Sep. 2022 – Sep. 2023

Graduate Design Researcher

Hampton, VA (Remote)

- Part of Convergent Aeronautics Solutions, a multi-disciplinary team for NASA Aeronautics focusing on human-centered design opportunities in aviation.
- Contacted and synthesized data from over 90 healthcare and aviation related stakeholders.
- Co-led co-design sprints with interdisciplinary teams.
- Performed ethnographic research in rural health challenges.
- Identified transitioning issues in virtual and in-person healthcare.

Bollinger Digital Fabrication Lab

May 2025 – Present

Design Consultant and Lab Technician

Philadelphia, PA

- Provide one-on-one design consultations to help Penn students and Penn Medicine Staff with manufacturability, CAD, material selection, and print strategy.
- Operate and maintain a fleet of FDM/SLA printers.

Venture Lab

May 2025 – Present

Studio Technician

Philadelphia, PA

- Operate and maintain a fleet of FDM printers and laser cutters.
- Advise students on manufacturability and design

EDUCATION

University of Pennsylvania

2024 – Present

Master of Science, Integrated Product Design

Philadelphia, PA

Georgia Institute of Technology

May 2022

Master's Certificate of Industrial Design

Atlanta, GA

- Winner of the European Product Design Award

Carnegie Mellon University

May 2021

Bachelors of Science Mechanical Engineering

Pittsburgh, PA

- Study Abroad Peking University Language Program
- Minor in Design

PROJECTS

Penn Dental Oral Care Project

2025 – Present

- Adapted Penn Dental robotic nanoparticle technology for consumer oral care market
- Led qualitative research with users and experts to uncover unmet needs and pain points in oral hygiene routines
- Proposed a novel suction-based mouth tray design to ensure a secure intraoral seal during magnetic nanoparticle cleaning

[Pandemonium Performance Stewart Platform](#)

2024 – 2025

- Collaboration as a engineer with Michelle Lopez Studios Team, Moore College of Art and Design, and Franklin Museum
- Designed Stewart platform for art exhibition; integrated multi-axis motion and motion captured data.

[Herbablock](#)

2022

- Modular hydroponic solution for urban living; winner of European Product Design Award.

SKILLS

- Adobe Suite; Figma; Webflow; SolidWorks; Fusion 360; Rhino; KeyShot; V-Ray; Arduino; Matlab; Python; C; 3D Printing; Laser Cutting; Machining; Mandarin

