

Joshua Davidov

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EDUCATION

The Cooper Union for the Advancement of Science and Art

Manhattan, NY

Mechanical Engineering B.E.

September 2024 — May 2028

- Cumulative GPA: 3.23/4.00 | Half Tuition Scholarship Recipient, Innovator Scholarship Recipient
- Relevant Coursework: The Evolving Universe, Remote Sensing Image Acquisition: Analysis and Application, Engineering Design and Problem Solving, Engineering Graphics, Principles of Design, Discrete Math, Linear Algebra, Differential Equations, Statics, Dynamics, Material Science, Introduction to Computer Science

PROJECT EXPERIENCE

Researcher

June 2025 — Present

Mililab, Custom 3D Cast

Manhattan, NY

- Designing and implementing a Python script to create a cast for any body part, ready for 3D printing with an input CAD model.
- Preparing scanned body parts for “meshification” using PyMeshLab, Blender Python API, NumPy, etc.
- Prototyping an open source mesh visualization and manipulation software using Figma and React Native.

Member

September 2024 — December 2024

Urban Infrastructure, Project TOAD

Manhattan, NY

- Engineering a compostion solution to prove a theory that oyster mushrooms can be utilized to break down forever plastics with a team of 5 engineers.
- Designed a piece of “living art” that accomodates specific substrates and their ideal growing conditions using Fusion360 and Solidworks.
- Presented our solution to the school in a yearly engineering design showcase.

The Cooper Union for the Advancement of Science and Art

Manhattan, NY

Member, Suicide Burn Descent Simulator

November 2025 — December 2025

- TBD

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Manhattan, NY

Member, 2D Finite Difference Solver

November 2025 — December 2025

- TBD

PROFESSIONAL EXPERIENCE

The Cooper Union for the Advancement of Science and Art

Manhattan, NY

Tour Guide

November 2025 — December 2025

- TBD

LEADERSHIP EXPERIENCE

SKILLS & INTERESTS
