



Brandon Bunt

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Masters student in mechanical engineering at the Cooper Union characterizing the thermal properties of mycelium as a novel insulation material. Deep interest in food, permaculture, decentralization and philosophy. Currently developing IoT solutions for family farms and permaculture applications, and recycling of post-consumer plastics.

Work Experience

SUMMER STEM TEACHING FELLOW – JANUARY 2022-AUGUST 2022

Designed a 3-week course that I taught twice for two groups of high school sophomores studying STEM over the summer. The course covered four key areas: mycology, the design cycle, circular economy, and acoustics. Students designed custom acoustic panels for specific locations within a local theater at the Loisaida Center. They then fabricated the molds at the Cooper Union, and grew their own mycelium panels in the lab. Installation of more panels made from the students' designs will take place in the spring of 2023.

AACE LAB STUDENT TECHNICIAN – JAN 2021 - PRESENT

Student Technician responsible for servicing and fixing equipment, and aiding students on the projects they are working on. Projects include 3D-printing molds for silicone casting, designing enclosures for electronic projects, testing novel plastics, recycling failed 3D prints, and creating low-cost eye wear.

GREAT HALL ARCHIVE / PROJECT INTERN – 2019-2021

Digitized and organized metadata on hundreds of reel tape collection of lectures given in the Great Hall at the Cooper Union to an online database.

<<https://greathallvoices.cooper.edu/>>

THE JED FOUNDATION / SUMMER INTERN – SUMMER 2019

Created a custom animation for JED to send to its national volunteer network as a method to increase email engagement. Reached out to numerous hiking organizations to help JED gain the necessary knowledge on the best way to further their peer-to-peer fundraising initiative.

Education

The Cooper Union – Master's in Mechanical Engineering, (Est. September 2023)

The Cooper Union – Bachelors of Science and Engineering, 2022

Minor in Philosophy, Mechanical Engineering Design Award, Benjamin Menschel Fellowship

Skills

Languages: Japanese, Portuguese, Spanish

Fabrication: Woodworking, FDM & STL Printing, Lasercutting, Melco Embroidery

Software Proficiency: Adobe Suite, various CAD, Ansys Workbench

Licenses: PADI Open Water Scuba Certification