



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 – SUMMER 2022, SUMMER 2023 AND ONGOING PREPARATION

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 economies, and acoustics. Students designed custom acoustic panels for specific locations within a local theater at the Loaisaida Center. They then fabricated the molds at the Cooper Union, and grew their own mycelium panels in the lab. A longer, 6 week class for high school juniors and seniors will take place summer of 2023. Installation of more panels made from the students' designs will begin in the spring of 2023, and continue throughout the summer.

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. Ongoing 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 and bolster their peer-to-peer fundraising initiative.

Education

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

The Cooper Union – Bachelors of Science and Engineering, 2022

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

Avenues: The World School – High School, 2018

Os Primeiros Exchange Program, Student Council President, Track and Field

Skills

Languages: Japanese, Portuguese, Spanish

Fabrication: Woodworking, FDM & SLA Printing, Laser-cutting, Melco Embroidery, 3D scanning

Software Proficiency: Adobe Suite, various CAD, Ansys Mechanical, Fluent

Licenses: PADI Open Water Scuba Certification, Red Cross First Aid Certification