

Brandon Bunt

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Mechanical engineer and designer specializing in heat transfer, instrumentation, biomaterials and mycology. Research interests include circular design, regenerative agriculture, soil remediation, education, interpretation, and tech supporting decentralized systems.

Skills

Languages: Japanese (Fluent), Portuguese (Proficient), Spanish (Intermediate)

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

Software Proficiency: Descript, Final Cut Pro, Onshape/Solidworks/Fusion360, Ansys Mechanical, Fluent, Obsidian, Zed, Concept
Licenses: PADI Open Water Scuba Certification, Red Cross First Aid Certification 2023, Active CO State Driver's License

Experience



STEVE JOBS ARCHIVE FELLOWSHIP / FELLOW – OCTOBER 2024 - OCTOBER 2025

- Selected for a one-year program for young creators working at the intersection of technology and liberal arts



KIAU TECHNOLOGIES PBC/ FOUNDER – SEPTEMBER 2023 - PRESENT

- Transitioned the "mudbug" project to a company seeking to build modular hardware for farmers
- Lead interdisciplinary team of artist and engineers creating custom hardware and data visualizations
- Invited by NSF's Seed Fund to apply to their SBIR program, submitted application in March 2025



SUMMER STEM / FACULTY – MAY 2022 - AUGUST 2023

- Designed and taught a summer course for high school sophomores, juniors, and seniors for two consecutive summers that covered mycology, heat transfer, material science, design thinking, circular economies, and acoustics
- Guided students in designing custom acoustic panels for a local theater at the Loisaida Center.
- Final panel design from the Loisaida project was accepted in August 2023.



AACE LAB / LEAD TECHNICIAN – JAN 2021 - MAY 2024

- Developed workflows for machine maintenance and waste management
- Trained new lab technicians on digital fabrication methods
- Fixed machines (listed in fabrication skills), and designed: custom silicone components, electronic project enclosures and recycled plastic waste from 3D printers

GREAT HALL ARCHIVE / ARCHIVIST – AUGUST 2019- MAY 2021

- Digitized metadata on hundreds of reel tapes of lectures given in the Great Hall at the Cooper Union to an online database. <<https://greathallvoices.cooper.edu/>>



THE JED FOUNDATION / SUMMER INTERN – JUNE - AUGUST 2019

- Designed a custom animation for JED to send to its national volunteer network to increase email engagement and bolster their peer-to-peer fundraising initiative.

Education



The Cooper Union – Master's in Mechanical Engineering

Founder of "mudbug", Murray Sackman Fellowship, Dore Ashton Interdisciplinary Research Fellowship for Social Engagement, Bioengineering Research Fellowship

The Cooper Union – Bachelors of Science and Engineering

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

Avenues: The World School – High School Diploma

Os Primeiros Exchange Program in São Paulo, Student Council President, Captain of Track and Field Team