

HENRY WAILL

EDUCATION

The University of Colorado Boulder Bachelor of Science, College of Engineering & Applied Science May 2024
Major: Creative Technology and Design, Minor: Music
Major GPA: 3:578, Overall GPA: 3.404

ENGINEERING AND DESIGN PROJECTS

Capstone Project – Creative Technology and Design Major Spring 2024

- *Todos Productivity Board* is a task management system built on a robotic whiteboard plotter. *Todos* is WIFI-enabled and is customizable via a Bluetooth web portal. The board detects magnets on its surface for seamless user interaction.
- Primary thought and execution leader in the project's conception, design, programming and construction.

Final Design Project – “Creative Technologies”, Graduate-Level Design Course Spring 2024

- *Macropad 2040* is a keyboard extension with programmable keys. Built on a custom-designed microcontroller circuit board with support for industry-standard firmware and hardware.
- Sole contributor; Designed circuitry, fabricated and assembled enclosure, designed and programmed firmware.

Final Project – “Object”, Undergraduate Physical Computing Course Spring 2023

- The *Sun Clock* is a lighting/décor product. With WIFI connectivity, the *Sun Clock* can present an analog clock, display the sun/moon cycle, or simply serve as accent lighting.
- Primary thought and execution leader in the device's conception, design, programming and construction.

WORK EXPERIENCE

The University of Colorado Boulder – Learning Assistant; Boulder, CO Spring 2021, Fall 2023

- Taught students principles of programming microcontrollers, designing and assembling circuits, modelling and fabricating physical enclosures.
- Adapted instruction to suit each student's self-directed independent projects.

The Corner – Shift Manager, Cashier; Boulder, CO (Full-time) July 2021 - Present

- Oversee front and back-of-house operations in a popular, high-volume restaurant.
- Train and supervise team members to provide consistent customer service and food quality.
- Restructured point of sale backend to improve communication, reporting and ease of maintenance.

McGuckin Hardware – Cashier, Sales Associate; Boulder, CO (Part-time) June 2018 - March 2020

- Handled Point-Of-Sale transactions efficiently and courteously as a cashier.
- Maintained inventory, stocked displays and assisted customers with questions, needs and purchases as a sales associate.

LEADERSHIP EXPERIENCE AND ACTIVITIES

NOLS (formerly National Outdoor Leadership School) – Expedition Member September 2016 – December 2016

- Demonstrated leadership and self-reliance living and travelling in the wilderness (90 days mountaineering, sea kayaking, backpacking.)
- Adapted to unpredictable environments.
- Elected by peers to lead group wilderness expedition without instructors.
- Earned *Leave No Trace* Master Educator Certification.

ADDITIONAL INFORMATION

Computer Skills: Web Development (HTML, CSS, JavaScript, React, NextJS, MySQL,) Programming (Java, C++,) Adobe Creative Suite (Photoshop, Illustrator, After Effects, Premiere Pro,) CAD (KiCad, OnShape, Rhino3D)

Technical Skills: Soldering, 3D Printing, Laser Cutting, Intermediate PCB Design

Languages: Conversational in Spanish

Interests: Piano and Music Production, Rock Climbing, Weaving, Mathematics

Work Eligibility: Eligible to work in the U.S. with no restrictions