

# HENRY WAILL

## EDUCATION

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**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

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**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/decor 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

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**Bison Peak Logistics** – *Amazon Delivery Associate*; Englewood, CO October 2024–Present

- Efficiently organize daily delivery routes, optimizing time and resources to ensure timely and accurate package delivery.
- Maintain a high level of customer satisfaction, providing professional, friendly service and addressing concerns promptly.
- Adhere to company policies while operating vehicles and handling packages to minimize risk and ensure compliance.

**Nexplore** – *Afterschool STEM Instructor*; Boulder, CO September 2024–Present

- Develop and deliver engaging STEM lessons and activities to students, fostering critical thinking and problem-solving skills in both English and Spanish.
- Provide support to a diverse group of students, ensuring understanding and participation across varying skill levels.

**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** – *Assistant Manager, Cashier*; Boulder, CO (Full-time) July 2021–August 2024

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

## LEADERSHIP EXPERIENCE AND ACTIVITIES

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**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 independent group wilderness expedition. Earned *Leave No Trace* Master Educator Certification.

## ADDITIONAL INFORMATION

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**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

**Design Skills:** User Interface Design, Graphic Design (Digital and Print), 3D Modelling

**Languages:** Conversational in Spanish

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