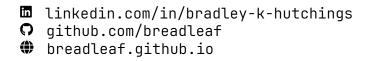
Bradley Kenneth Hutchings

(707)-302-9750 • bkhnapa@qmail.com







EDUCATION

Colorado School of Mines - Golden, CO

July 2021 - May 2025

Bachelor of Science, Computer Science

CSCI GPA: 3.04

Mines EE Classes: Circuits, Digital Logic, PCB Design, and Elements of Computing.

Napa Valley College - Napa, CA January 2017 - January 2021

Certifications: Autodesk Fusion360

TECHNICAL SKILLS

Software Tools | Linux, Git, PlatformIO, Fusion360, EagleCAD, FreeCAD, KiCAD

Quartus, Oscilloscope, Arduino, THT & SMD Soldering Hardware Tools

Python3, C/C++, Verilog, Rust, Go, JavaScript, Postgres SQL Languages

Protocols | I2C, SPI



WORK EXPERIENCE

Contractor Work: Tech Lead & Manager - SwingLens LLC

May 2025 - June 2025

- Managed a team of 7 intern engineers whilst working closely with other advisors.
- Advised on Python, Flask, Hardware configuration, and industry programming practices.
- Developed and open-sourced a Python tool for importing Jupyter Notebooks.

Research Internship - CSM & National Science Foundation

May 2024 - September 2024

- · Automated data aggregation, filtering, and processing with Python and Pandas.
- Trained SciKitLearn models to identify vulnerable network data.

Product Development Internship - Analytical Data Systems

May 2023 - August 2023

- Developed a toolchain to have LLMs to introspect and reprompt for more normalized results based on user-defined qualities.
- Implemented several interfaces to interact with the service from Discord or a custom web client in JavaScript.

</> PROJECTS

NovaMill Open Hardware PCB Mill - Author

July 2025 - Present

NovaMill is a work in progress Open Hardware desktop PCB Mill with the goal of making rapid PCB prototyping easier as faster.

- · Real-time motor and sensor control with Pi Pico 2 W running Marlin.
- Pi Zero 2 W running custom Linux distribution for on-device machine learning corrections.

BreadLeaf-8 (BL-8) Hardware Implementation - Author

June 2025 - Present

Working towards implementing my custom 8-bit Computer based on 74HC chips. The architecture is based on my Distributed Custom ISA Execution Environment software project.

- Designed and iterating on custom toolchain to edit my CPU's microcode.
- Implementing FPGA adaptaion to be implemented in Tiny Tapeout ASIC project.

BreadPod (Muserve Hardware Companion) - Author

September 2024 - Present

- ESP32 based music player with touch control.
- Communicates with Muserve Server software project.

Robotics Software Engineer - FRC #7667

November 2018 - June 2019

- Competed in the 2019 Houston World Championship.
- Fabricated and implemented a game piece manipulation mechanism using C++ and WPILIB.

Last Updated: September 15, 2025