

# Ryan Kerwick

[ryanakerwick@gmail.com](mailto:ryanakerwick@gmail.com)

[Github Profile](#)

## PROFILE

Computer Science student with experience in embedded systems, systems coursework, and interdisciplinary development. Delivered medical device firmware and manufacturing automation tools during an internship. Seeking opportunities to solve diverse challenges and develop as a future engineering leader.

## EXPERIENCE

### Tensentric, Software Engineering Intern

Summer of 2025

- Developed bare-metal C firmware for the Dory underwater blood pressure monitor, working directly with UART, I2C, and timers to ensure safe and reliable operation in a regulated medical device environment.
- Designed and implemented a weigh station application in C# from scratch — created the full environment, project structure, and codebase. Integrated with manufacturing hardware to partially automate blister weighing, reduce manual effort, and improve quality control consistency.
- Implemented ISO 13485 risk mitigations and authored compliant documentation to support regulatory requirements and future development.
- Collaborated with electrical, mechanical, systems, and manufacturing engineers to align both firmware and application software with broader system and production requirements.

### Microkwick Machining Services, Operations Assistant

Summer of 2024

- Worked alongside an experienced mentor to develop and manufacture various projects such as an automated milling machine and pick and place machine.
- Developed skills in SolidWorks, web development, microcontroller programming, circuit board design, and more.

### Delta Kappa Epsilon — Treasurer

January 2025 - Present

- Manage \$30K–\$50K semester budgets, collect dues from our 40 members, and oversee the bank account and debit card.
- Created budgets across recruitment, social, philanthropy, and housing chairs and collaborated to balance tradeoffs and maximize value.

## COURSEWORK

### CSCI 3308 Group Project — Fashion Website

October - December 2024

- Worked with a team to create a full-stack website that recommends clothes based on user preferences.
- Developed skills in the Render, PostgreSQL, Express, and Handlebars/Bootstrap tech stack, following Agile methodologies.

## SKILLS

Embedded Programming

Full-stack Development

Object Oriented Programming

Inter-disciplinary Teamwork

Operating Systems

Data Structures & Algorithms

Agile & Scrum Methodologies

### Programming Languages

C / C++

Python

C#

### Tools / Frameworks

PostgreSQL

Node.js / Express

WSL & Docker

Git / Github / Azure DevOps

Pandas

## ANTICIPATED SKILLS

Cybersecurity

Database Systems

Network Systems

## EDUCATION

University of Colorado at Boulder

Majoring in Computer Science

Minoring in Business

3.89 Cumulative GPA

Graduating 05/27