

Ryan Kerwick

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[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
Financial Management
Full-stack development
Object Oriented Programming
Inter-disciplinary teamwork

Programming Languages

C / C++
Python
C#

Tools / Frameworks

PostgreSQL
Node.js / Express
WSL & Docker
Microsoft Office Suite
Git / Github / Azure DevOps

ANTICIPATED SKILLS

Cybersecurity
Robotics
Data Science

EDUCATION

University of Colorado at Boulder
Majoring in Computer Science
Minoring in Business
3.89 Cumulative GPA
Graduating 05/27