

Software and Embedded Systems Engineer

Austin Hutchen

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Website: <http://austinhutchen.github.io/austinscode>

Experience

Backend Software Engineer Intern - FormFactor Inc.

May 2024 - Aug 2024 · 4 months

Boulder, Colorado, United States · On-site

Built an RS232 C# NuGet library for ModBus ASCII/RTU drivers and simulators for quantum computing instruments at FormFactor. Drafted engineering decisions for near-zero Kelvin operations.

Skills: Software Infrastructure, Algorithms, C#, Engineering, RS232, Quantum Computing

Software Engineer Intern - FormFactor Inc.

May 2024 - Aug 2024 · 4 months

Boulder, Colorado, United States · On-site

Developed a ModBus ASCII/RTU Library with a simulator and numerous tests using C#. Created a driver to interface over an RS-485 TCP server with an embedded temperature controller (MOXA CND3). Collaborated with the FormFactor Cryo Boulder team to develop FormFactor's IQ3000 Spin-Qubit quantum computer system, adhering to an AGILE schedule.

Skills: Software Infrastructure, SAS (Software), Serial ATA (SATA), Failure Analysis, Software Design, Documentation, Engineering, Problem Solving, Assembly Language

Calculus 2 Course Assistant - University of Colorado Boulder

Jan 2023 - May 2023 · 5 months

Boulder, Colorado, United States · On-site

Taught and assisted with Calculus 2 (MATH 2300), held office hours weekly, and received 97% positive feedback from 63 students.

Skills: Leadership, Teaching, Mathematics Education, Communication, Applied Mathematics

Marketing Consultant - Mobius Materials

May 2021 - Aug 2021 · 4 months

Remote

Made the first company sale and collaborated with engineers to meet targets. Authored research articles on e-waste, including this piece.

Skills: Teamwork, Marketing, Communication, SEO, Content Marketing

Electronics Repairs & Reseller - eBay

May 2018 - Present

Remote

Sold and repaired Apple, Linux, and Windows devices, completing over 50 sales with 100% positive feedback. View my account [here](#).

Skills: Electronics Repair, E-Commerce, Customer Service, Computer Hardware

Open Source Developer - GitHub

May 2022 - Present

United States · Hybrid

Contributed to open-source projects, including many of my own IoT devices and X algorithm optimization. See my work [here](#).

Skills: Software Infrastructure, Internet Software, Engineering, Methodology, Open-Source Software

Open Source Contributions & Volunteer Work

Twitter Algorithm Optimizations

Optimized the X algorithm for floating-point parallelism, enhancing computational efficiency.

Garden School Foundation

Volunteered to build a community garden at Wilshire Crest Elementary for underrepresented groups.

GitHub Contributions

View my GitHub streak stats [here](#).

LeetCode Solutions

Check out my LeetCode solutions [here](#).