

# Software and Embedded Systems Engineer

Austin Hutchen

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## Experience

### Software Engineer Intern - FormFactor Inc.

May 2024 - Aug 2024 · 4 months

Boulder, Colorado, United States · On-site

Developed a comprehensive ModBus ASCII/RTU library in C#, including a simulator and extensive tests. Designed and tested a driver for interfacing with an RS-485 TCP server and an embedded temperature controller instrument (MOXA CND3). Collaborated directly with the FormFactor Cryo Boulder team on the IQ3000 Spin-Qubit quantum computer system, contributing to engineering decisions for near-zero Kelvin operations.

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

### Calculus 2 Learning Assistant - University of Colorado Boulder

Jan 2023 - May 2023 · 5 months

United States · On-site

Assisted in teaching Calculus 2 (MATH 2300) by hosting weekly office hours and guiding students through complex mathematical concepts. Received 97% positive feedback from 67 students.

**Skills:** Leadership, Teaching, Mathematics Education, Applied Mathematics, Web Applications, Communication

### Digital Marketing Analyst - Mobius Materials

May 2021 - Aug 2021 · 4 months

Remote

Created and executed strategic email marketing campaigns to engage and convert the target audience. Analyzed marketing analytics data to optimize strategies for increased brand awareness and organic traffic. Managed Google Ads campaigns to maximize ROI and drive targeted website traffic. Additionally, I wrote several Medium articles for Mobius Materials' IC Marketplace, discussing the threat of e-waste, and contributed to the company's first sale.

### Open Source Developer - GitHub

Dec 2020 - Apr 2024 · 3 years 5 months

United States · Hybrid

Contributed to optimization projects for Twitter (now X) by enhancing IEEE floating-point vectorization. Developed several IoT projects, including automated ESP-8266 plant waterers, weather sensors, and asynchronous LED walls. See projects at [github.com/austinhutchen](https://github.com/austinhutchen).

**Skills: Software Infrastructure, Code Review, OSC, Internet Software, Engineering, Methodology, Open-Source Software**

## **eBay Business**

### **Electronics Reseller - Los Angeles, CA (Username: Gadgetsllcc)**

**November 2016 - February 2021**

- Implemented marketing/advertising SEO strategies and offered timely customer service online, generating over \$2,000 pre-tax revenue.
- Received 100% positive feedback rate from 70 buyers because of friendly communication, effective problem solving, troubleshooting, and great technical support.