

# Software and Embedded Systems Engineer

**Austin Hutchen**

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

## Experience

### Software Engineer Intern - FormFactor Inc.

**May 2024 - Aug 2024 · 4 months**

*Boulder, Colorado, United States · On-site*

Personally developed a ModBus ASCII/RTU Library with a simulator and numerous tests using C#. Also 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, Algorithms, SAS (Software), Serial ATA (SATA), Failure Analysis, Software Design, NuGet, Documentation, Engineering, C#, Problem Solving, Assembly Language**

### Contract Software Engineer - Self-Employed

**Mar 2024 - May 2024 · 3 months**

*Los Angeles County, California, United States · Hybrid*

Developed several modern e-commerce websites with Stripe payment integration using bare HTML, CSS, and TypeScript, aiming to replicate Wordpress sites.

**Skills: Software Infrastructure, Contract Hire, Engineering, C#**

### Open Source Developer - GitHub

**Dec 2020 - Apr 2024 · 3 years 5 months**

*United States · Hybrid*

Contributed to Twitter (now X) by optimizing IEEE floating point vectorization, improving build and runtime efficiency. Engaged in various embedded projects like a ChatGPT clone for debugging, an ESP32 plant waterer, WIFI LED wall, and more. View projects at [github.com/austinhutchen](https://github.com/austinhutchen).

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

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

**Jan 2023 - May 2023 · 5 months**

*United States · On-site*

Supported faculty by assisting students in APPLIED and MATH Calculus 2. Conducted weekly office hours and provided guidance throughout the semester.

**Skills: Leadership, Teaching, Mathematics Education, Computer Literacy, Applied Mathematics, Skill Development, Web Applications, Communication**

### Digital Marketing Consultant - Mobius Materials

**May 2021 - Aug 2021 · 4 months**

*Remote*

Executed strategic email marketing campaigns, analyzed analytics data, and developed content marketing

strategies to boost brand visibility. Managed Google Ads campaigns, social media presence, and implemented SEO techniques.

**Skills: Teamwork, Code Review, Computer Literacy, Marketing, Skill Development, Software Development, Problem Solving, Project Management, Communication**