

# MATTHEW BERGER

Littleton, CO · matthewjordanberger@gmail.com · 775.357.7884 · matthewberger.dev

Founding engineer with 11 years Rust expertise (pre-1.0 early adopter), including 5+ years in production systems. Built food assembly robotics control suite from zero to production in 22 months, securing \$10M+ investment from Chipotle and Cava.

## WORK EXPERIENCE

---

### Hyphen (Culinary Robotics)

Remote

*Staff Software Engineer (Founding Engineer)*

September 2022 - Present

- Founded food assembly robotics controls suite as first engineer, driving technical pivot from PLC to Rust architecture and achieving complete product delivery in 22 months securing **\$10M+ investment** from Chipotle and Cava
- Engineered full technology stack from bare-metal firmware (RP2040/Embassy) to distributed robotics control system and cloud infrastructure, including custom Yocto Linux distribution
- Built core async message broker coordinating distributed processes on industrial PC with direct networking to embedded boards, handling **5M+ msgs/sec** with **<1ms latency**, zero message loss over **3 years** of constant use
- Transformed team of TypeScript/React developers into proficient Rust systems programmers through hands-on mentorship, establishing architectural patterns, and pair programming
- Designed deterministic layered configuration system enabling unlimited fleet scaling
- Created Hyphen Explorer tool achieving **100% adoption** across all software engineers, ops technicians, and culinary operators for real-time IPC visualization, debugging, and system control
- Published open-source Rust crates with 200k+ total downloads (enum2str, enum2contract, enum2egui, enum2pos, enum2repr)

### Hyphen (Culinary Robotics)

Remote

*Senior Software Engineer*

July 2021 - September 2022

- Diagnosed critical scaling limitations in legacy PLC system preventing growth beyond prototype
- Led technical pivot from \$500K PLC system to embedded Rust architecture
- Prototyped RP2040 firmware with Embassy-rs
- Built AWS infrastructure with Docker, Kubernetes, and Pulumi while transitioning company to new technical direction

### Sierra Nevada Corporation

Englewood, CO

*Software Engineer III*

May 2020 - July 2021

- Developed C++/Rust aerospace imaging system (5GB/sec) and simulator saving 3 months on delivery timeline

### Scientific Games

Reno, NV

*Software Engineer*

July 2019 - May 2020

- Resolved critical performance and behavioral defects in a Unity-based casino-gaming platform

### Hamilton Company

Reno, NV

*Software Engineer*

January 2018 - July 2019

*Software Engineering Intern*

October 2014 - December 2017

- Built safety-critical software for liquid-handling medical robots
- Automated gravimetric analysis QA process, saving **1+ week per robot** across production fleet
- Reduced calibration development from **2 months to 2 weeks** through reusable plugin framework
- Architected diagnostic application for largest OEM customer Illumina (**\$2M contract**)

## EDUCATION

---

University of Nevada, Reno

BS Computer Science & Engineering, Minor in Mathematics, 2017