




TIMOTHY VOLPE

HARDWARE SYSTEMS ENGINEER

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Professional Summary

Skilled systems engineer with 4+ years of hardware and software experience working in reliability-focused roles in the semiconductor industry. Focused on using cutting-edge hardware and software technologies to deliver intuitive, long-lasting systems for complex applications.

Education

Bachelor of Science in Electrical Engineering

University of Massachusetts, Lowell

Magna Cum Laude

May, 2020

Lowell, MA

Skills

- Complex power and digital circuit design
- Embedded system design and implementation
- Hardware and software integration
- Extensive experienced with C/C++ and Python
- Web languages, SQL, L^AT_EX
- Project management
- Team leadership, direct reports
- Data analysis tools (e.g. MATLAB)

Employment History

Analog Devices, Inc.

Wilmington, MA

Senior Hardware Systems Engineer (May 2024 - Present)

Hardware Systems Engineer (February 2021 - May 2024)

- Design of reliability hardware for performing burn-in qualification testing on new and existing products.
- Responsible for design, support, and improvement of internal reliability burn-in systems.
- Cost and cycle-time reduction measures through the introduction of reusable hardware and reliability-focused firmware APIs to eliminate project-specific design work.
- Creation and support of a Qt-based lab controller application that pulls test requirements from an internal SQL database and translates them into repeatable, general-purpose instructions for lab instrumentation.
- Project management-focused tasks such as creation and maintenance of schedules as well as cost estimates and analysis necessary to take hardware and system requirements from design to delivery.
- Leadership role with direct reports.

Savant Systems

Hyannis, MA

Manufacturing Engineer (October 2020 - February 2021)

- Supporting manufacturing and testing of consumer electronics.
- Developing improvements to the QA process to increase output using software tools such as Python.
- Root cause analysis and correction of failures that occur throughout the product lifecycle.

Rockwell Automation

Chelmsford, MA

Electrical Engineering Co-Op (June 2019 - January 2020)

- Worked on new products as well as continuation of popular product lines, including magnetic safety switches and light curtains.
- Performed design verification testing to ensure products meet required specifications.
- Collected data through simulations and mathematical analysis to support PCB design changes.

Interests

Outside of work, enjoys spending the time outdoors, honing rock climbing and mountaineering skills for increasingly technical peak-bagging ventures. Also enjoys camping, fishing, and skiing; around the house free time is often spend cooking, brewing beer, sewing, and on various hobby projects.