ENOCH LINDEMAN

Software Engineer / Embedded Systems Specialist
Cofounder & Owner, by The Lindemans, LLC

enoch@lindeman.family (619) 333-8221
www.linkedin.com/in/enoch-lindeman San Diego, CA

SUMMARY

Software Engineer with over 5 years of experience in **C++** and **Python** development for embedded systems and real-time operating platforms. Strong expertise in multi-threaded software design, system optimization, and embedded software frameworks. Experienced in working on **Linux**, **RTOS**, and safety-critical systems, with a focus on building robust, scalable software solutions that meet industry standards.

EXPERIENCE

Embedded Systems Software Engineer

Tolleson Union High School District
Jun 2022 – Ongoing
Avondale, AZ

Developed and optimized embedded software using C++ and Python
- Led multi-threaded C++ development projects for embedded platforms, improving processing efficiency by 30%.
- Collaborated with system architects to optimize real-time operating systems for critical applications.

Integrated system diagnostics and automated testing tools
- Developed Python scripts for system diagnostics and performance monitoring, reducing downtime by 25%.
- Implemented unit testing frameworks and utilized static analysis tools to improve code quality.

Owner & Software Developer

by The Lindemans
Dec 2022 – Ongoing
San Diego, CA

Designed and maintained software frameworks for embedded systems
- Built multi-core processing frameworks for real-time embedded systems, increasing system responsiveness by 20%.
- Utilized Git for version control and collaborated with cross-functional teams to ensure seamless software integration.

Optimized safety-critical software for embedded platforms
- Integrated real-time diagnostics and monitoring for critical system components.
- Implemented ISO 26262-compliant development practices for safety-critical applications.

Mission Technology Specialist

The Church of Jesus Christ of Latter-Day Saints
May 2020 – May 2022
Syracuse, NY

Developed C++ tools for system diagnostics and real-time monitoring
- Created multi-threaded C++ applications to monitor system performance, reducing latency in real-time operations.
- Led integration efforts for embedded Linux systems, enhancing system stability and efficiency.

Supported embedded software development and debugging
- Provided technical support for real-time system software, resolving critical bugs and optimizing resource allocation.

EDUCATION

Bachelor of Science in Technological Entrepreneurship and Management

Arizona State University
Expected May 2026
Online

- Current GPA: 4.0
- Relevant coursework includes embedded systems, multi-threaded programming, and real-time operating systems.

Associate of Science in Computer Science

Rio Salado College
August 2024
Tempe, AZ

- Graduated Summa Cum Laude, GPA: 3.9
- Specialized in C++, Python, and embedded system design for real-time applications.

SKILLS

C++ (C++14/17) | Python | Multi-threaded Software Development | Embedded Systems | Linux | Real-time Operating Systems (RTOS) | QNX | Git | Git LFS | Functional Safety (ISO 26262) | System Diagnostics | Unit Testing Frameworks | Cross-Functional Collaboration