

RAINER POISEL

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SUMMARY

Highly skilled software developer specializing in embedded systems and cyber security with 15+ years of experience in developing and securing software solutions from project launch to production. Expertise includes embedded systems architecture and programming, DevOps, and cybersecurity practices. Proficient in handling technical complexities in large-scale projects, ensuring both security and efficiency throughout all development phases.

SKILLS

Embedded Systems Development Extensive experience in developing embedded software. (C/C++, Rust, Scripting)
Cybersecurity Practices: IEC 62443 Strong experience implementing IEC 62443 standards, including secure code review, security testing, and designing security architectures.
Embedded DevOps and CI/CD Deep understanding of continuous integration and deployment pipelines, containerization, and orchestration for embedded systems.
Testing and Quality Assurance Comprehensive knowledge of test frameworks and methodologies, including automated testing and hardware-in-the-loop (HiL) testing.
Networking and Protocols Comprehensive knowledge of networking protocols, communication technologies, and industrial communication standards.
Documentation and Collaboration Proficient with various documentation tools and collaborative platforms.

WORK EXPERIENCE

2020-Present *Independent Embedded Software Consultant - Dipl.-Ing. (FH) Mag. Rainer Poisel*

- Implemented test suites for embedded security requirements
- Designed secure embedded system architectures
- Developed CI/CD environments and pipelines for IACS applications

2021-2022 *Senior DevOps Engineer - Unwired Networks GmbH*

- Developed secure embedded Linux firmware
- Built device management micro-services
- Administered Kubernetes in GCP/GKE

2014-2020 *Lead Software Architect, Embedded Software Team - logi.cals GmbH*

- Led PLC architecture development
- Delivered PLC runtimes up to SIL3, ASIL C
- Designed and implemented CI/CD processes

2008-2014 *Cyber Security Researcher - FH St. Pölten*

- Conducted digital forensics and file carving
- Modeled threats for critical infrastructure

EDUCATION

2007 - 2010 Mag., Computer Science Management - TU Wien

2003 - 2007 Dipl.-Ing. (FH), Telecommunications - FH St. Pölten

CERTIFICATIONS

ISAQB CPSA-F Certified Professional for Software Architecture Foundation Level - [Verify](#)

ISTQB CT-FL Certified Tester Foundational Level - [Verify](#)

BEC C1 Business Higher

PROJECTS

Embedded Focus Blog Author - [Online](#)

We publish articles about our experiences in the domain of embedded security in our blog on a regular basis.

HomeAutomation PLC SoftPLC Framework - [GitHub](#)

Framework for developing applications using the cyclic execution pattern typically found in PLCs.

pytest/labgrid Embedded Security Testing - [GitHub](#)

I am an active contributor to the labgrid project, where I enhance QA measures and usability in CI/CD environments.