

SØREN K. HAUG

Denmark • [Online Portfolio](#)

SUMMARY

Electronics and Software Engineer with focus on software systems development and software process automation. Holds a B.Eng. in Electronics from the University of Southern Denmark. Proven in enhancing software reliability through automated testing and continuous integration. Skilled in developing embedded functionality and optimizing build processes using Jenkins and CMake. Brings strong leadership abilities from military service as a Sergeant. Passionate about delivering innovative, high-quality solutions while driving technological advancement through systematic problem-solving.

WORK EXPERIENCE

Automation Tester, SAAB Danmark A/S

May 2025 – Present

- Designed and implemented pytest automation framework from scratch with CI/CD integration.
- Developed test plans and Doxygen documentation for EAL certification compliance, conducting ongoing code and document reviews.
- Implemented automated API test suites via internal audit systems and MQTT broker for TactiCall tactical communication system.

Independent Software Engineer

Aug 2024 – Apr 2025

- Developed embedded C projects integrating sensors across multiple MCUs.
- Built and deployed React/TypeScript web applications using GitHub Actions and Docker.
- Implemented automation solutions using PowerShell and Git workflows for process optimization.

Development Engineer, LINAK A/S

Feb 2023 - Jul 2024

Promoted from Intern to Development Engineer after thesis completion

- Boosted software reliability by creating unit tests with GoogleTest and system tests using Robot Framework and Python.
- Enhanced build reliability through automated Jenkins pipelines and PowerShell linting framework for MISRA C compliance.
- Developed embedded functionality for ARM Cortex M0+ and M4 processors (STM32Gx, NRF528x), implementing features and debugging on target hardware.
- Improved documentation infrastructure by reorganizing and enhancing code documentation with Doxygen.

Sergeant & Guard Commander, The Danish Army

Jul 2017 - Sep 2020

- Earned the prestigious 'Best Squad' achievement and was recognized as 'Soldier of the Month'.
 - Successfully led and executed lectures for middle managers and officers, ensuring 100% pass rate.
 - Led teams of 8-40 members in high-pressure situations, fostering collaborative and productive work environments while ensuring alignment with key objectives.
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EDUCATION

Bachelor of Engineering in Electronics

Sep 2020 – Jan 2024

University of Southern Denmark

- Exchange semester at University of Calgary Sep 2022 – Dec 2022
- Thesis on "Project Build Automation (CMake)" Final Grade: A

ADDITIONAL INFORMATION

Technical Skills

- **Programming Languages:** C/C++, Python, Java, PowerShell, VHDL
- **Web Technologies:** TypeScript, JavaScript, React, CSS, HTML
- **Build Systems & Documentation:** CMake, Make, Meson, Doxygen
- **Embedded Systems:** ARM Cortex MCUs, MISRA C, Bare-Metal Programming
- **Testing Frameworks:** PyTest, GoogleTest, Robot Framework, Fake Function Framework, Allure Reporting
- **CI/CD & Version Control:** TeamCity, Docker, Bitbucket, JFrog, Jenkins, Git, SVN, GitHub Actions
- **Operating Systems:** Linux (Ubuntu, Oracle), Windows

Project & Collaboration Tools

- **Atlassian suite:** JIRA, Confluence
- **Development Environments:** VS Code, Keil MDK, CLion
- **Analysis Tools:** MATLAB, PC-lint Plus

Development Methodologies

- Agile/Scrum, Test-Driven Development, Continuous Integration
- Requirements analysis and documentation
- Code review and quality assurance
- Cross-functional team collaboration

Leadership & Project Management

- Team leadership and personnel development
- Project planning and risk assessment
- Crisis management and decision-making under pressure

Languages

- English (Fluent), Danish (Fluent), German (Beginner)