

# SØREN K. HAUG

6440, Augustenborg

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## 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.

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## WORK EXPERIENCE

### Independent Software Engineer

Aug 2024 - Present

- 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 2024 - Jul 2024

- Enhanced build reliability by designing and implementing an automated Jenkins pipeline structure.
- Implemented linting framework (PowerShell & PC-lint Plus) for MISRA compliance.
- Improved documentation by reorganizing and enhancing code documentation with Doxygen.
- Participated in code reviews, providing constructive feedback and ensuring adherence to development standards.

### Embedded Development Engineer Intern, LINAK A/S

Feb 2023 - Jul 2023

- Boosted software reliability by creating and updating unit tests with GoogleTest.
- Ensured timely delivery by implementing critical system tests using Robot Framework and Python.
- Enhanced embedded functionality for ARM Cortex M0+ and M4 processors, implementing new features and debugging on target hardware.

### 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.
  - Confident leader of teams of 8-40 members in high-pressure situations, fostering a collaborative and productive work environment.
  - Motivated and developed team members, ensuring alignment with key objectives and enhancing overall team performance.
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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:** GoogleTest, Robot Framework, Fake Function Framework
- **CI/CD & Version Control:** Jenkins, Git, SVN, GitHub Actions, Docker

### **Project & Collaboration Tools**

- **Atlassian suite:** JIRA, Confluence
- **Development Environments:** VS Code, Keil MDK
- **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)