

# Hannupekka Sormunen

Passionate about automation, cryptography, embedded systems, modular architecture and secure communication.

✉️ [hannupekka.sormunen@gmail.com](mailto:hannupekka.sormunen@gmail.com) ☎️ +358 50 325 1702 🗺️ Joensuu, Finland

## Summary

Senior-level Embedded Software Engineer with 6+ years of experience in low-level C/C++ development for FreeRTOS-based systems. Proven track record in modernizing legacy codebases, implementing modular architectures, and driving DevOps automation for faster, safer, and cost-efficient development. Strong expertise in cryptography and secure end-to-end communication. Former team leader with excellent self-management and cross-functional collaboration skills.

## Skills

- Languages: C++, C, (Micro)Python, JavaScript
- Platforms: Hosted (Windows, Linux etc.) and free standing (FreeRTOS)
- Tools: CMake along with compilers and debuggers, Git, SVN, CI/CD (GitLab CI, Jenkins).
- Other: Cryptography, Secure Communication

## Languages

- Finnish (Native)
- English (Professional)
- French & Swedish (Elementary)

## Professional Experience

### Aplicom Oy | Software Engineer | 2019 – Present | Jyväskylä, Finland

- Developed and maintained embedded software for FreeRTOS-based systems using C and C++.
- Led modernization of codebase to modular architecture, enabling isolated development and testing, reducing iteration time from 1–2 minutes per device flash cycle to near-instant local testing — improving development speed by approximately 70%.
- Implemented automated release processes and unit testing pipelines, replacing manual multi-step deployment with fully automated CI/CD workflows — reducing release preparation time by approximately 80% and minimizing human error.
- Designed and integrated secure end-to-end communication protocols leveraging cryptographic principles.

### ManpowerGroup Solutions | Customer Service Operation Coordinator & Team Supervisor | 2012 – 2018 | Joensuu, Finland

- Operated within the customer service operations team, consistently exceeding efficiency targets — achieving up to 200% of the expected rate, earning top-tier commission incentives.
- Promoted to Team Supervisor; led a team that maintained 100% compliance with performance thresholds and achieved 95% on-time response within 24 hours, ensuring high customer satisfaction and operational excellence.

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## Projects & Blog

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- Repositories: <https://gitlab.com/sorhanp>
- Technical Blog: <https://sorhanp.gitlab.io>

## Education

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- Degree in Business Information Technology | North Karelia University of Applied Sciences
- Further Qualification in First-Line Management | Riveria
- Vocational Qualification in Electrical/Electronics | North Karelia Professional College