Vladimir **Svoboda**

SOFTWARE ARCHITECT & TECH LEAD

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Summary

Passionate software architect with 14+ years of experience delivering innovative solutions across healthcare, industrial automation, and finance. Adept at balancing simplicity, scalability, and elegance under tight deadlines. Skilled in architecture design, hands-on development, and team leadership. Versatile, quick learner, and committed to a holistic, cross-layer view of technology.

Experience

Architect & Tech lead of embedded health device

Kaspard   *Apr 2020 - Present*

Kaspard is a solution dedicated to improving the quality of life for the elderly by detecting and preventing falls in nurseries/hospitals.

- **Led agile development team**, defined technical roles, and designed solution architecture
- Improved Time-of-Flight sensor software (**C++**, BuildRoot)
- Deployed on-premise and cloud services (Spring, **Python**)
- Implemented DevOps pipelines with Ansible and AWS CDK

E2E development of industrial machines

Inside-X (acquired by TOMRA)   *Jun 2019 - Aug 2020*

- Developed real-time X-ray **image processing** machine for a food industry startup
- Built multi-threaded **C++**/Qt/QML application
- Advised on methodology and hardware selection

Freelance C++ optimisation & methodological advising

Lambda-X   *May 2019 - Jun 2019*

- Optimized a 20-year-old C++ vision system, doubling performance and fixing memory leaks

Kernel hacker & embedded software developer

HIPPEROS (University Spin-Off)   *Apr 2013 - May 2019*

- Joined from inception to develop a new real-time operating system (**RTOS**) from scratch
- Designed architecture and implemented low-level Assembly and C code
- Optimized multi-core performance (OpenMP / parallelism)

SWIFT

Junior software developer   *Oct 2011 - Apr 2013*

- Built new backend cloud application (Java)
- Contributed to requirements gathering and co-design of another application

Skills

- C/C++ programming
- Embedded (Linux / Buildroot)
- Backend (Java/Python)
- System Architecture
- Team Leadership
- AWS Cloud
- Devops (Ansible, Docker)
- Frontend (Typescript/Angular)
- Scripting (shell + Python)
- Agile Methodologies
- OpenAPI
- Desktop UI (Qt)

Languages

French	●●●●●
English	●●●●○
Dutch	●○○○○

Education

Master of Computer Science

Université Libre de Bruxelles
Sep 2006 - Jun 2011
High honours