

JOHAN WESTLUND

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SUMMARY

Embedded software engineer with more than 5 years of C / C++ experience developing firmware, drivers, libraries and applications for many different processor architectures and operating systems.

I have mainly worked with product development in small to medium size agile teams, close to other software and hardware engineers. I am very independent and have no problem working alone as well as working together with other team members. I have good communicative skills and find it easy to talk to people with other professional backgrounds than I have.

Board bring up, documentation and test has always been a part of my work including measurements and soldering. I also have experience with C# and Java creating test software and integrating low level libraries into these languages as well as some experience with electronic design.

WORK EXPERIENCE

Embedded Software Engineer at BitSim AB

- Product development consultant
- Firmware, library and application development
- Electronic design

Embedded Software Engineer at Speed Identity AB

- Product development and maintenance
- Firmware, library and application development

System Developer at Combitech AB

- Software development and maintenance at Ericsson AB working with time synchronization in radio base stations.

EDUCATION

Engineering Physics and Technical Engineering – M.Sc. System on Chip

Master Thesis: Voice Processor on an FPGA

KEYWORDS

C, C++, Micro controllers, Windows, Linux, SVN, GIT, C#

SKILLS AND TOOLS

(2) Some experience (3) Experience (4) Good experience (5) Mentor

Languages

C	4
C++	4
C#	3
Java	2
Assembly	3
Verilog	3

Operating Systems

None	4
Windows XP/7/10	4
Windows XP/7 Embedded	4
Linux	4
ThreadX	3
Android	2

IDEs and Tools

Eclipse	4
Visual Studio	4
GNU Toolchain	4
GDB	3
Altium Designer	3
Eagle PCB	3
MPLABX	2

Libraries and Frameworks

.NET	3
GStreamer	3
OpenSSL	3
SDL	2
Zlib	2
OpenCV	2
OpenGL	2

Architectures

x86 / x64	4
ARM Cortex	3
ARM9 / ARM11	4
8051	3
Atmega32	3
PIC24	3

Communications

UART	4
RS232	3
USB 2.0 / USB 3.0	4
I2C	3
SPI	4
Ethernet	3

Versioning

SVN	4
GIT	3
JIRA	4
TRAC	2

Industries

Industrial	4
Government	3
Data Security	3
Telecom	2

INTERESTS

Image processing, parallel computing, code optimization, hardware acceleration, hardware emulation, sensors fusion, control theory