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

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| **Languages** |  | **Operating Systems** |  |
| C | 4 | None | 4 |
| C++ | 4 | Windows XP/7/10 | 4 |
| C# | 3 | Windows XP/7 Embedded | 4 |
| Java | 2 | Linux | 4 |
| Assembly | 3 | ThreadX | 3 |
| Verilog | 3 | Android | 2 |

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| **IDEs and Tools** |  | **Libraries and Frameworks** |  |
| Eclipse | 4 | .NET | 3 |
| Visual Studio | 4 | GStreamer | 3 |
| GNU Toolchain | 4 | OpenSSL | 3 |
| GDB | 3 | SDL | 2 |
| Altium Designer | 3 | Zlib | 2 |
| Eagle PCB | 3 | OpenCV | 2 |
| MPLABX | 2 | OpenGL | 2 |

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| **Architectures** |  | **Communications** |  |
| x86 / x64 | 4 | UART | 4 |
| ARM Cortex | 3 | RS232 | 3 |
| ARM9 / ARM11 | 4 | USB 2.0 / USB 3.0 | 4 |
| 8051 | 3 | I2C | 3 |
| Atmega32 | 3 | SPI | 4 |
| PIC24 | 3 | Ethernet | 3 |

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| **Versioning** |  | **Industries** |  |
| SVN | 4 | Industrial | 4 |
| GIT | 3 | Government | 3 |
| JIRA | 4 | Data Security | 3 |
| TRAC | 2 | Telecom | 2 |

# Interests

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