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 Location      Göteborg, Sweden

HELLO WORLD!    You should hire me if you need an engineer to design and build software for embedded systems. I will help you create a full software system following best current practices, even if you're starting from scratch. My experience lets me work closely with hardware and software engineers alike to create a well-integrated system that meets the client's needs.

YOUR COMPANY    Your company should be developing embedded solutions for clients in various industries. The products will include some software, and there will often be a connection to a network. I prefer a work environment with freedom and self-organization.

EDUCATION        **Chalmers University of Technology**, Göteborg

M.Sc., Engineering – <i>Datateknik, civilingenjör</i>	<b>2013</b>
M.Sc., Computer Science – <i>Comp.Sci.: Algorithms, Languages &amp; Logic</i>	<b>2013</b>
• Thesis: Supercompiling Erlang ( <a href="https://weinholt.se/thesis.pdf">https://weinholt.se/thesis.pdf</a> )	
• Advisor: David Sands	
B.Sc., Computer Science and Engineering – <i>Datateknik, tek. kand.</i>	<b>2010</b>
• Thesis: Porting NetBSD to IGEPv2 [ <i>an ARM SoC</i> ]	
• Advisor: Arne Dahlberg	

PROJECTS

<b>Freemelt AB</b> , Mölndal, <i>Software and firmware developer</i>	<b>2019-08 – ongoing</b>
<b>Easy-Laser</b> , Mölndal, <i>Project leader</i>	<b>2021-10 – 2022-06</b>
<b>Mevia AB</b> , Göteborg, <i>Firmware developer</i>	<b>2019-08 – 2022-05</b>
<b>Coherent, Inc.</b> , Mölndal, <i>Firmware developer</i>	<b>2020-12 – 2021-08</b>
<b>Sjöräddningssällskapet</b> , Göteborg, <i>Linux developer</i>	<b>2021-06 – 2021-06</b>
<b>Voi Technologies AB</b> , Göteborg, <i>Firmware developer</i>	<b>2020-09 – 2020-12</b>
<b>Aqua Robur AB</b> , Mölndal, <i>Firmware developer</i>	<b>2018-12 – 2019-08</b>
<b>Vaculex AB</b> , Mölndal, <i>Software architect</i>	<b>2019-01 – 2019-04</b>
<b>Cellink AB</b> , Mölndal, <i>Linux developer</i>	<b>2018-11 – 2018-11</b>
<b>Freemelt AB</b> , Mölndal, <i>Software developer</i>	<b>2018-08 – 2018-10</b>
<b>Ericsson AB, Packet Core</b> , Lindholmen, <i>Lead developer</i>	<b>2013-08 – 2018-07</b>

EMPLOYMENT      **QRTECH AB**, Mölndal

<i>Senior software engineer</i>	<b>2022-01 – current</b>
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I'm working with hardware designers to create the next generation of a client's product. I'm project leader on a test system that will let another client test their BLE-based product. I'm maintainer for an internal add-on to Zephyr that enables fast development of LwM2M-based IoT product.

**Keywords:** Linux, IoT, Zephyr, Python, Go, C++, OpenCL C, FPGA.

**Endian Technologies AB**, Mölndal*Senior software engineer***2018-08 – 2021-12**

I worked on numerous projects, mostly in IoT. My first in-house assignment led us to start working with Zephyr RTOS. At Endian it was easy for the whole company to work together as a team. I learned the nitty-gritty of working with electronics; troubleshooting new PCBs with an oscilloscope and finding faults in schematics. We were never far away from the client and I learned how to talk their language, so to speak.

**Keywords:** Embedded Linux, IoT, Docker, Python, JavaScript, React, MQTT, Node.js, Golang, Security, C++, OpenCL, C, OMA LwM2M, Zephyr, X.509, containers, gdb, git, TCP/IP, LTE-M, NB-IoT, nRF52, STM32, Raspberry Pi, board bring-up.

**HiQ Göteborg AB**, Gothenburg, Sweden*IT consultant***2013-08 – 2018-08**

Next to my assignment at Ericsson, I was also leading the in-house training in embedded systems. A large benefit of working at HiQ at the Lindholmen office was the training in agile methodologies that they provided. They really hammered it in.

**Chalmers Studentbostäder, Network Group**, Gothenburg, Sweden*Network administrator (part-time during studies)***2004-06 – 2013-06**

I ran an ISP for nine years. It gave me extensive experience with networks; with everything from connecting fibers and debugging network issues on all levels, and I even maintained an Autonomous System in BGP and RIPEdb. I wrote much of the software we used to manage the network.

**Keywords:** TCP/IP, IPv6, BGP, IS-IS, VLAN, sockets, SNMP, Linux, RS232, Python, Perl, C, SQL, DNS, AS, LIR, virtualization.

**Open End AB**, Gothenburg, Sweden*System administrator (part-time during studies)***2003 - 2008**

I ran the local servers, the network and the PBX, managed desktops and handled backups.

**Keywords:** Linux, cfengine, Apache, NFS, DRBD, Asterisk.

## LANGUAGES

**Swedish** fluent, native level.**English** fluent, native level.

## OUTSIDE OF WORK

I'm building a PC operating system from scratch, which is closely related to a compiler I'm also building. I also like to build my own libraries for various things like networking protocols, cryptography, file formats and file systems. There is no better way to learn something than to implement it from scratch. It also gives me a creative outlet that is often missing at work, where I instead try to make "boring" solutions, which tend to be easier for everyone to understand and maintain.

Other interests include meditation, amateur radio, and the various normal things one would expect to see here. I'm also a Debian Developer.