



## Jens Nyberg

System architect and software developer

Jens Nyberg is a Software Engineer and Software Architect with 12 years of professional experience ranging from embedded development, os & driver development, full-stack web development, big data solutions engineer, project management, system architecture designer and prototyper for telecom and spare time open source developer.

# Work Experience

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Nov 2016 - Ongoing  
Stockholm

## Technology area specialist

Ericsson

Jens worked as a specialist in the area of operating systems and virtualization. He mainly did prototyping work in order to find new and better solutions for problems in Ericssons' portfolio of products. One of the bigger projects that Jens came up with (together with another colleague) that gained a lot of attention was a custom-built Linux image based system which ran entirely in RAM in which Ericsson was able to deploy both it's entire IMS system and it's entire vRAN system with a mix of virtual machines and containers. This lowered the amount of compute resources needed considerably because of the little footprint and minimal configuration it had in comparison to the previous OpenStack instances and at the same time it saved a ton on maintenance and testing. The time it took to upgrade an entire cluster of machines went from weeks to literally hours (or even minutes in some cases). This was showcased and demoed all throughout Ericsson and got very positive feedback and was even presented at Mobile World Congress together with what was going to be the next generation hardware for edge deployments for which this was built. Sadly, soon after, Ericsson started to discontinue these type of deployments so the project never really had time to make it out the door.

VMware Linux Python Vim Bash C Docker Mikrotjänster  
Molnlösningar VirtualBox OpenStack QEMU Kubernetes Libvirt

May 2012 - Oct 2016  
Stockholm

## Software developer

Ericsson

Ericsson builds their own server blades called GEP which is part of their BSP blade system offering. Jens wrote both Linux drivers to handle custom hardware components on GEP (like the custom BMC) and tools for updating firmware like BIOS and for various disks and network devices. Not only did he do the actual development himself but as the project owner he also helped plan for upcoming revisions and synchronize the daily work items together with the hardware developers themselves. Also had meetings with representatives from Intel.

More about BSP: <https://www.ericsson.com/en/portfolio/digital-services/cloud-infrastructure/bsp-8100>

Linux Perl Git Vim Bash C TCL Yocto

Apr 2011 - Apr 2012  
Stockholm

## Software developer

Combitech

Jens worked as a consultant for Ericsson, mainly on their custom SLES-based Linux system used in a platform know as Core Middleware. The system had already by then been around for a while so there was not much feature development so most of the time was spent handling bug reports and improving the test coverage. Pretty soon after this Jens got offered a job and moved over as a full time employee at Ericsson.

Linux Jenkins Git Vim Bash C TCL

Aug 2010 - Jul 2011  
Västerås

## Software developer

Pingdom

The idea behind Pingdom is very simple. They monitor the server of a customer by sending pings from other machines around the world. If the server doesn't reply they notify the customer that the server is not reachable. The results of each of these pings needs to be saved and analyzed. It needs to be aggregated and made available for reading. Jens worked on trying to improve the performance in this backend that dealt with all of this data. He also improved worked on the backend for the web interface and sometimes on the frontend as well.

HTML JavaScript PHP SQL CSS C# MySQL

May 2007 - Jul 2010  
Uppsala

## Software developer

Trippus

Jens worked as a fullstack developer working on both the frontend (HTML, JS) as well as the backend (C#, SQL) of their travel booking system.

HTML JavaScript ASP ASP.NET SQL Subversion CSS C#

## Education

Computer science  
Uppsala university (Uppsala)  
Finished 2,5years

2003 - 2006

## Courses and Certifications

Linux Device Driver and Board Support Package Development  
WindRiver

2016

The Linux Device Driver and Board Support Package Development course provides engineers with a fast, cost-effective way to acquire the skills necessary to develop, deploy, and debug their own customized Linux device drivers and BSPs in the Wind River® Linux environment.

## Skills

### 5 Expert

C CSS HTML Operativsystem QEMU

### 4 Advanced

ASP Bash Docker Git JavaScript Jenkins Libvirt Linux Mikrotjänster PHP  
Raspberry PI SQL Vim VirtualBox

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## High Competence

ASP.NET

C#

Dolphin Emulator

GCW Zero

Molnösningar

MySQL

Nätverkantering

Subversion

TCL

2

## Intermediate

Arduino

Assembler

C++

Kubernetes

OpenGL

OpenStack

Perl

Python

VMware

Yocto

## Languages

Swedish

Native or bilingual proficiency

English

Full professional proficiency