

## EMPLOYMENT

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<b>Software Engineer</b>	<b>Monetas AG</b>	<b>Apr 2014 - Jan 2015</b>
<ul style="list-style-type: none"><li>• agile software development mentoring and putting lean processes in place aiming for top productivity.</li><li>• lead building of the software engineering infrastructure for automation and best practices.</li><li>• leading architectural improvements of existing system and future new systems.</li><li>• leading team of engineers in refactoring and transforming a large C++ legacy code base towards something decoupled and modular that can be scaled from a single machine to many machines running a single service.</li><li>• advocating engineering best practices and mentoring colleagues and open-source contributors.</li><li>• interviewing and building engineering team.</li></ul>		
<b>Software Engineer</b>	<b>Source Capital AG</b>	<b>Sep 2010 - Jun 2013</b>
<ul style="list-style-type: none"><li>• in small elite team leading development of ultra low latency trading operations in C++ for Linux.</li><li>• built many FIX, FAST and proprietary price feeds and trading interfaces for ultra low latency and high quality.</li><li>• improved overall system performance several orders of magnitude for latency sensitive strategies looking at end to end including network, hardware, OS, software and so on addressing the largest latencies first.</li><li>• rewrote build system (make) for simpler and deterministic builds.</li><li>• mentored colleagues in software engineering and performance related topics.</li></ul>		
<b>Freelance IT Consultant</b>	<b>Private</b>	<b>2006 - 2013</b>
<ul style="list-style-type: none"><li>• developed internal document system from scratch with Ruby on Rails and deployed on Heroku to help a client get a market advantage and automate workflows to save lots of time.</li></ul>		
<b>Software Engineer</b>	<b>actant AG</b>	<b>Oct 2007 - Aug 2010</b>
<ul style="list-style-type: none"><li>• developed distributed service framework (SOA) in C++ for future version of market making platform to move away from a monolithic architecture to something modern and flexible.</li><li>• several orders of magnitude performance improvements of overall market making platform.</li><li>• designed and developed fully automated Continuous Integration system integrating VCS, project management system and builds for fully automation and visibility.</li><li>• advocated Scrum and agile practices which lead to company-wide adoption. I continued to mentor product management and other colleagues in Scrum.</li></ul>		
<b>Software Engineer</b>	<b>Nokia Networks</b>	<b>Jan 2006 - Jun 2007</b>
<ul style="list-style-type: none"><li>• coordinated and lead overall porting effort of a messaging (MMS) solution from HP-UX to Linux that included about 20 engineers.</li><li>• demoed to management first successful MMS sent on the Linux platform.</li><li>• very much involved in a company-wide push to adopt agile software practices and establish lean processes.</li></ul>		
<b>Master Thesis</b>	<b>Nokia Networks</b>	<b>May 2005 - Dec 2005</b>
<ul style="list-style-type: none"><li>• developed the external application interface (MM7) in C++ on HP-UX for the Nokia MMS Center.</li></ul>		
<b>Project Manager</b>	<b>Nokia - TKK</b>	<b>Oct 2004 - Apr 2005</b>
<ul style="list-style-type: none"><li>• negotiated with people at Nokia to get a special project for a course at the university.</li><li>• successfully built and lead team to develop a web based inventory system for the LAMP stack.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Nokia Networks</b>	<b>May 2004 - Sep 2004</b>
<ul style="list-style-type: none"><li>• developed test automation using shell scripts for a client-server system saving weeks of manual work.</li></ul>		
<b>Freelance IT Consultant</b>	<b>Kemira Chemicals Oyj</b>	<b>Summer 2002 and 2003</b>
<ul style="list-style-type: none"><li>• designed and developed a software system to help measurements in a lab.</li><li>• designed and developed a software system to measure luminosity of production line to aid adjustments.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Nokia</b>	<b>Jun 2002 - Aug 2002</b>
<ul style="list-style-type: none"><li>• developed unit testing for embedded C using shell scripts and C.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Nokia</b>	<b>Jun 2001 - Aug 2001</b>
<ul style="list-style-type: none"><li>• developed testing platform in Java Servlets for the SyncML service.</li></ul>		

## EDUCATION

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<b>Espoo, Finland</b>	<b>Helsinki University of Technology</b>	<b>2002-2006</b>
<ul style="list-style-type: none"><li>• Computer Science, MSc. Tech.</li></ul>		
<b>Vaasa, Finland</b>	<b>University of Vaasa</b>	<b>1999-2001</b>
<ul style="list-style-type: none"><li>• Computer Science</li></ul>		
<b>Espoo, Finland</b>	<b>Scrum Alliance</b>	<b>2008</b>
<ul style="list-style-type: none"><li>• Certified Scrum Master</li></ul>		

## SKILLS

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- first principles thinking
  - organization and planning, prioritization, problem solving, lean thinking and continuous improvements
  - large-scale software design, architecture and development
  - quality assurance, automation, optimization
  - open-source development
  - messaging systems, distributed systems, scaling, performance
  - trading systems, FIX, FAST, various prop exchange protocols
  - C/C++, Ruby, Golang, Shell scripting, ZeroMQ, Boost, ASIO, networking, Ruby on Rails, Linux, OSX, Git
  - web technologies

## LANGUAGES

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- Swedish - native
  - English - fluent
  - Finnish - professional
  - German/Swiss-German - moderate
  - French - basic