

CONTACT INFORMATION	Mandolingatan 19 2tr SE-421 45 Västra Frölunda Sweden	+46 (0)70-366 76 94 goran@weinholt.se <a href="https://weinholt.se/">https://weinholt.se/</a> <a href="https://github.com/weinholt/">https://github.com/weinholt/</a>
SUMMARY	Göran is a passionate and knowledgeable developer with a deep interest for everything that surrounds software. He's been a programmer since 1993 and worked with it professionally since 2004. At work he is happy and engaged with coworkers, with a view of both the whole system and the details. He lives in Frölunda with his wife.	
COMPETENCE	Telecommunication. Continuous development. SCRUM. Test-driven development. Compiler construction. System development.	
TOOLS	Languages: Python, JavaScript, C, machine code, Erlang, Go, Lisp Python: SQLAlchemy, Requests, BeautifulSoup JavaScript: Node.js, MongoDB, ES6 Continuous integration: Jenkins, Travis CI Source control: git, gerrit, GitHub, svn Issue tracking: Redmine, JIRA	
INTERESTS	Göran is interested in all aspects of computer programming. Other interests include philosophy, films, music, languages, Arduino projects, games and amateur radio.	
EDUCATION	<b>Chalmers University of Technology</b> , Gothenburg, Sweden	
	M.Sc., Computer Science: Algorithms, Languages and Logic	<b>2013</b>
	<ul style="list-style-type: none"> <li>• Thesis: Supercompiling Erlang (<a href="https://weinholt.se/thesis.pdf">https://weinholt.se/thesis.pdf</a>)</li> <li>• Advisor: David Sands</li> </ul>	
	B.Sc., Computer Science and Engineering	<b>2010</b>
	<ul style="list-style-type: none"> <li>• Thesis: Porting NetBSD to IGEPv2 (<i>ARM Cortex-A8 based platform</i>)</li> <li>• Advisor: Arne Dahlberg</li> </ul>	
EMPLOYMENT	<b>Ericsson AB, Packet Core</b> , Gothenburg, Sweden	
	<i>Software architect</i>	<b>2015-01 - present</b>
	Göran developed the leading Automatic Release Tool for fully automatic releases of Ericsson's software. The tool uploads software in PRIM and GASK2, but Göran's team was the first to go further and also automate the release work in SW Gateway, EriCOLL and EriDoc. Göran's team also developed Automatic Software Distribution which distributes software from SW Gateway directly to Ericsson's customers. Göran's initiatives for automatic testing and code quality helped the team gain speed and confidence and deliver working software faster.	
	As architect Göran was responsible for:	
	<ul style="list-style-type: none"> <li>• Simulators of external systems for automatic integration testing and testing of various system properties (e.g. error recovery and idempotency).</li> <li>• Continuous integration with automatic tests, static code checkers and coverage analysis.</li> <li>• Distributed system for automatic file transfer to customer nodes.</li> <li>• Design and implementation of object oriented APIs matching the business domain, even for systems lacking official APIs.</li> <li>• Design and implementation of web pages to help coordinate software releases.</li> <li>• Development of a reactive and responsive user interface.</li> </ul>	
	<b>Keywords:</b> Python, Kanban, Agile, TDD, JavaScript, MySQL, SQLite, Meteor, MongoDB, Twitter Bootstrap, web scraping, git, gerrit, Jenkins, Linux, paramiko, SQLAlchemy, BeautifulSoup, Enovia, SharePoint, EMC Documentum.	

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

While working as a consultant Göran also took on the role as leader for TraQ Embedded. This is HiQ Göteborg's in-company training in the embedded systems area. In this role he organized workshops, presentations, helped arrange courses and engaged his coworkers.

**Ericsson AB, Packet Core**, Gothenburg, Sweden*Software developer***2013-08 - 2014-12**

As a developer in an agile team using SCRUM methodologies, Göran helped the team create a system for automating Ericsson's software releases. Göran's extensive knowledge of programming, networks and computers systems and how they behave (and fail) in practice proved very valuable to the team.

As developer Göran was responsible for:

- Design and implementation of a fault tolerant distributed system based on finite state machines.
- Development of Python scripts which interact with a PLM system.

**Keywords:** Python, SCRUM, Agile, MySQL, git, Gerrit, Jenkins, Linux.

**Chalmers Studentbostäder, Network Group**, Gothenburg, Sweden*Network administrator***2004-06 - 2013-06**

Göran was hired after participating in numerous successful trouble shootings of network problems that occurred on the large L2 network that connected the students at the dorm. He could often find the source of problems before the employed administrators found them. His first initiative after being hired was to create a tool that used SNMP to look up MAC addresses in switches, so that the team could quickly locate and disconnect the source of problems. During his employment Göran got to work with and troubleshoot everything in a network, all the way from the light in the fiber up to the application layer.

As network administrator Göran was responsible for:

- Troubleshooting and correction of ongoing network interruptions (both on a massive L2 network and later an L3 network with around 2000 nodes).
- Development of tools for network management in Python, Perl and C; including integration of the same with the housing administration's systems.
- Design, implementation and maintenance of a fully routed network with separate broadcast domains for each customer.
- Design, implementation and maintenance of redundant anycasted services in a mixed IPv4/IPv6 network through internal and external routing.
- Automatic configuration of a customer customizable DNS system with signed zones.
- Transit through OptoSunet and setting up peering with ISPs connected to the local IXP Netnod.
- Managing administrative data for an AS in RIPv6db.

**Keywords:** BGP, IS-IS, SNMP, libpcap, Linux, TCP/IP, IPv6, Python, Perl, C, PostgreSQL, Junos, DNS, DNSSEC, BIND, NSD3, KVM/QEMU, VMware.

LANGUAGES      **Swedish** fluent, native.  
                  **English** fluent, near native.  
                  **Russian** basic proficiency.

OPEN SOURCE      Göran began programming as a hobby in 1993. He always has a few ongoing projects.  
PROJECTS          His first project in C was started in 1999 and was a program that transferred files  
                         between a PC and Casio calculators. During the years 2001–2004 he and a friend  
                         created a curses-based user interface for a P2P software. It was free software and at  
                         the time had a few thousand users.

Since then he has had projects ranging from simple IRC bots to hobby operating systems and compilers. A major project has been Industria, in which he implemented the most common **cryptographical algorithms**, libraries for **decompression** of zlib and xz data, a few **disassemblers** and libraries for a few network protocols, including **TLS** (and **X.509**), **SSH**, **DNS**, and more. Doing these projects from the ground up gave him a very deep understanding of the technologies.

His currently ongoing projects include an **x86 emulator** that can run real-mode DOS and a **static code checker** (linter) for R6RS Scheme. He has extended his collection of disassemblers with an **ARM AArch64 disassembler** and moved them to a separate project. Keeping up with modern practices, each commit to the projects is automatically tested with Travis CI.

MISCELLANEOUS    Full driver's license (Swedish class B). Amateur radio license, SA6CJK.

REFERENCES        Niklas Borg. Christian Häggström. Contact details available on request.

*"Göran skapar ett engagemang hos sina teammedlemmar och sprider en känsla av att alla kan bidra till projektet."  
– Anton Norell*