

Jan Ekholm

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CITIZENSHIP	Finnish	
MARITAL STATUS	Married to Jeanette Heidenberg	
LANGUAGE SKILLS	Swedish, Finnish, English, German	
EDUCATION	Åbo Akademi University , Turku, Finland M.S., Computer Science, June 2008 <ul style="list-style-type: none">• Thesis Topic: <i>Linux Message Buses</i>• Advisor: Adjunct Professor Marina Waldén• <i>Magna cum Laude</i> Matriculation Exam, Computer Science, May 1992 <ul style="list-style-type: none">• <i>Laudatur</i>	
ACADEMIC EXPERIENCE	Åbo Akademi University , Turku, Finland <i>Teaching C and C++</i> May 2000 <ul style="list-style-type: none">• Teaching of a 40h C and C++ course. <i>Teaching Java</i> March 2000 <ul style="list-style-type: none">• Teaching of a small workshop in introductory Java. <i>Teaching C and C++</i> October 1999 to December 1999 <ul style="list-style-type: none">• Teaching of a 40h programming course on C++ for students at the Department of Computer Science. <i>Teaching Unix</i> September 1998 to November 1998 <ul style="list-style-type: none">• Teaching parts of a hands-on course on Unix at the Department of Computer Science at Åbo Akademi. <i>Teaching Unix</i> September 1997 to November 1997 <ul style="list-style-type: none">• Teaching parts of a hands-on course on Unix at the Department of Computer Science at Åbo Akademi. <i>Teaching Unix</i> September 1996 to November 1996 <ul style="list-style-type: none">• Teaching parts of a hands-on course on Unix at the Department of Computer Science at Åbo Akademi.	
CERTIFICATIONS	Nokia Certified Qt Developer , Pearson VUE, October 2009	
PROFESSIONAL EXPERIENCE	Cybercom June 2005 to present <ul style="list-style-type: none">• Qt based work for a mobile platform.• Development of management applications for a VoIP solution in Java.• Development of various embedded Linux based projects related to mining equipment for Sandvik Mining and Construction using Qt and C++.	

Nokia **October 2003 to April 2005**
• Software development for a Linux based set top box using C and C++.

Agentum Technologies **May 2000 to September 2003**
• Development on the backend server for an intelligent search agent in Java.
• Development of the backend storage system for the Omena hotels online reservation system.

Åbo Akademi University **January 2000 to March 2000**
• Development of a surveillance and security system for the Department of Computer Science at Åbo Akademi.

Suomen Ohjelmistotyö Oy **January 1999 to April 1999**
• Translation of part of the User's Guide for *Best Linux 5.3 SE* from English to Swedish.

Åbo Akademi University **March 1998 to September 1999**
• Development of software for biochemical visualization in 3D using C++, Qt and Linux/Irix.

Enator-ryhmä Oy **March 1996 to September 1997**
• Software development for document management applications using C++, VB and the LinkWorks platform.

Åbo Akademi University **January 1996 to December 1996**
• Development of software for visualization of chemical processes in the paper industry using C++, Qt and Linux/Digital Unix.

PUBLICATIONS Master's Thesis: *Meddelandebussar i Linux*

Unfinished Master's Thesis: **Unix Network Programming using Zombie.**

C++ course material: **Programming C++.**

TECHNICAL SKILLS Extensive experience since 1994 using and developing software for and with Linux. Over 13 years of experience in developing applications using C++ and Qt for Linux and various other versions of Unix.

Technologies: object and component oriented software development, Scrum, UML, embedded Linux etc.

Programming: C, C++, Python, Java, UNIX shell scripting, SQL, CVS, Subversion, PHP, Perl, Elips, Scheme and others.

Toolkits and libraries: Qt, STL, OpenGL, DVB & media, XML, SGML, SVG, OpenSceneGraph, OGRE, SDL, Pygame, UPnP, regular expressions and much more.

Operating Systems: Linux, Maemo, OSX, Microsoft Windows 2000/XP and various variants of Unix.

Databases used: MySQL, SQLite, PostgreSQL, Oracle.

OWN PROJECTS **State Machine Editor**

- Qt based application for creating state machines using the *Qt State Machine Framework*.

Memory monitor

- Qt based application for monitoring the memory consumption and layout of running processes.

Temperature monitoring system

- A server system that reads temperatures using 1-wire temperature sensors and stores in a database.
- A Qt based applet that can view and administrate temperatures and sensors.

Metronome

- A Qt application that works as a musical metronome.

EMusic downloader

- A Qt application for downloading music purchased from **eMusic**.

Civil

- A turnbased wargame developed using Python, Pygame and PyQt.

Simple Media

- A complete media solution for our home entertainment system developed using Qt and C++.
- Handles videos, images, DVD:s, music, monitors temperatures, IMDB and various other tasks.