

# Michele Lindroos

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## Personal Data

Place and Date of Birth	Finland, June 25, 1987
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## Work Experience

June 2012 - Current, LM Ericsson  
Software Developer.

Summer 2011, Aalto University, Acoustics Laboratory  
Research assistant at Research group of Paavo Alku (speech processing).

Summer 2010, Aalto University, Acoustics Laboratory  
Research Assistant at Research group of Ville Pulkki (spatial sound).

Autumn 2008 - Spring 2011, Aalto University, Laboratory of Mathematics  
Teacher of Basic Engineering Mathematics.

Spring 2008 - Autumn 2009, Oy Elmorex Ltd  
System Developer.

## Education

Master of Science (Tech.), Aalto University 2014  
Major: Acoustics  
Minor: Signal Processing  
Study Programme: Telecommunications

Grade Point Average: 3.69

Focused on studying computing hardware, real-time systems, programming languages and stochastic processes.

Master's Thesis: [Task Scheduling in Multicore Conversational Speech Processing Systems](#)

## Programming Languages

C	Excellent
C++11 and later	Very Strong
pre C++11	Strong
Java	Strong
Python	Mediocre
(Object) Pascal	Strong
(Visual) Basic	Mediocre

## Scripting Languages

PHP	Strong
Tcl/Tk/Expect	Strong
JavaScript	Mediocre
Bash	Mediocre
Groovy	Basics

## Assembly Languages

MIPS	Mediocre
Freescale DSP	Mediocre
x86 (GAS)	Basics
ARM	Basics

## Technologies and Expertise

Linux Kernel

Very familiar with the codebase. Especially strong knowledge of the task scheduling architecture and algorithms.

### Concurrency

Very experienced in writing multithreaded software. Familiar with synchronization primitives. Very knowledgeable in how to use and how *pthread* is implemented.

### Real-time Software

Familiar with the academic literature. Experienced in considering, measuring and tackling problems related to predictable response times.

### Collaboration and Continuous Integration

Experienced in using *Git*, *Gerrit*, *CMake* and *Jenkins*.

### Memory in Computer Science

Familiar with memory abstractions, hardware memory designs, C++11 atomics, one glibc malloc/free implementation and Linux virtual memory mapping.

## Languages

Finnish	Excellent
Swedish	Excellent
English	Strong
Italian	Mediocre