Mauri Mustonen

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EDUCATION	 Tampere University of Technology, Tampere, Finland ■ M.Sc. in Software Engineering with Distinction • Cumulative GPA: 4.52 / 5.0 	2016 – 2018
	 Karelia University of Applied Sciences, Joensuu, Finland Information Engineer in Software Cumulative GPA: 4.50 / 5.00 	2012 – 2016
	Vocational School Avartum Oy, Joensuu, FinlandVocational Qualification in Business and Administration	2010 – 2019
	Vocational School Peltola, Joensuu, FinlandElectronics Technician	2004 – 2007
EXPERIENCE	 Tampere University, Tampere, Finland Researcher in Parallel Computing and Compilers Researching and improving an open source OpenCL implementation PoCL. Researching and making contributions to LLVM compiler infrastructure, especially auto vecto Working with LLVM software pipeliner to exploit ILP of VLIW architectures. 	2020 — Present rization parts.
	 Lumitum Ltd, Tampere, Finland Software Consultant and CEO CEO and co-founder. Embedded and web software consultant. 	2020 – Present
	 Wapice Ltd, Tampere, Finland Embedded Software Developer Embedded development with CMake, C and C++ up to C++17 standard. Xillinx SDK and tools e.g. Vivado. Real time OS, ARMv7 architecture and driver development for FPGA custom hardware. 	2019 – 2020
	 Alsus Ltd, Tampere, Finland Full-Stack Web Developer Web development (e.g Ruby on Rails, AngularJS). Distributed system architect and developer (e.g. Linux, C, Ruby, CMake, AMQP, Redis). Writing Ruby native extensions to C language. Contributing to open source (e.g. Ruby on Rails, libIEC6850). 	2017 – 2019
	 Arestech Ltd, Joensuu, Finland Entrepreneur and Shareholder Responsible for customer relationships and meetings in Pirkanmaa region. Embedded software design and developer (e.g. AVR, Linux, C/C++, Python). Working as a software consultant. 	2016 – 2020
	 Asmeco, Joensuu, Finland Entrepreneur and Owner Production management software for Puupietari Oy done with Django/Python and AngularJS with integration to Lemonsoft ERP. Embedded development using Python and C/C++ (e.g. AVR, Arduino, Raspberry Pi). Maintenance and development of Kirpputorivaraus software for flea market management (e.g. Knockout, JQuery, PHP). Kirpputorivaraus integration to Tehden Oy cloud based point of sale. 	2015 – 2017
	 K-citymarket Ltd, Joensuu, Finland Seller and Storage Worker Selling electronics and storage management. 	2009 – 2016

2006 - 2007

North Karelia Brigade, Joensuu, Finland

■ Electronics Technician

• Fixing and taking care of the electrical equipment.

LANGUAGES

- Finnish: Native language.
- English: Proficiency (speaking, reading, writing).

SKILLS

- AMQP and RabbitMQ,
- Altera Cyclone FPGA,
- Back-end (Ruby on Rails and Django),
- C/C++,
- CMake,
- CPU and VLIW Architectures,
- Databases (PostgreSQL, MySQL, Redis),
- Docker and Containers,
- Embedded (ARMv7, AVR, Raspberry Pi),
- Front-end (AngularJS, React),
- HTML5, (S)CSS, SASS,
- Java,
- JavaScript,
- LLVM Compiler Optimizations and Back End,
- Linux Kernel,
- Linux Server Administration,
- OpenCL Parallel Programming,
- Python,
- Ruby,
- Software Integrations (SOAP, REST),
- VHDL,
- Windows, Linux,
- Xilinx SDK.

INTERESTS

Bicycling, Geocaching, Programming, Electronics, Books