Curriculum Vitae
Mikko Leppänen

Hielahdenkatu 9 A 13
65100 Vaasa
Finland
+358 40 730 8564
mleppan23@gmail.com

- I currently work as a development engineer at Vacon. Mainly I'm responsible for main circuit design of AC drives, focusing on inductive/capacitive components. Alongside that I do various other tasks including electromagnetic/thermal simulations and PDM/PLM usage.
- I am interested in programming and open source. Nowadays I spent significant time developing mobile applications and most of my projects are mobile related. Alongside that I'm also focusing on computer vision/image processing and how to apply them on my new ideas. I constantly try to improve my skills and learn new things whether it's related to some programming language or an open-source scientific computing tool.

Education

MS Tampere University of Technology
2003-2009 Electrical Engineering(Electromagnetics)

Upper Secondary School of Kangasala
1999-2002

Experience

Employment

Vacon Plc R&D Development Engineer
2008–Present

TUT Research Assistant
2007–2008 Tampere University of Technology

updated August 2014

Computing

I am an active developer and I have made several contributions to the open source community. For more information, see my Matlab Central File Exchange and Github profiles:
http://www.mathworks.com/matlabcentral/fileexchange/authors/125461
https://github.com/MikeL83
Matlab Central File Exchange pick of the week:
http://blogs.mathworks.com/pick/2013/02/22/coding-challenge-on-input-parsing-result/

Skills

- +8 years experience with MATLAB
- +4 years experience with Qt/QML and C++
- Experience with bash, LaTeX, HTML5, CSS3, PHP, SQLite, jQuery, Fortran.
- Scripting: Python, JavaScript
- Technologies: OpenCV, Boost, OpenMP, MPI, PyQt
- Tools: GCC, LLVM/Clang, git, Doxygen
- Operating systems: Linux (Ubuntu), Windows 7/8 and Sailfish OS

Scientific simulation software

Ansys Maxwell I have used Maxwell electromagnetic field simulation software many years for various engineering tasks.

Ansys Icepak I have now used Icepak for a few years. I have done several different kind of thermal simulations for the AC drives. In addtion I have participated in several trainings and seminars related to Icepak/thermal engineering.

Ansys Simplorer I have used Simplorer for the AC drives simulation.

Ansys Q3D I have some experience with Q3D related to busbar simulations.

Courses

ECPE 2011 ECPE/Cluster Tutorial: Part 1 - Thermal Engineering of Power Electronic Systems (Thermal Design and Verification) - Erlangen, Germany

ECPE 2011 ECPE/Cluster Tutorial: Part 2 - Thermal Engineering of Power Electronic Systems (Thermal Management and Reliability) - Erlangen, Germany

XSPIS 2014 Cross platform application development using Qt framework

XSPIS 2014 Become a Developer for Sailfish Operating System: An Introduction

Coursera 2014 High Performance Scientific Computing course

Personal details

Place of Birth: Loviisa, Finland
Nationality: Finnish
Military Service: July 2002 – July 2003

Hobbies

Mountain biking
Indoor rowing
Programming
Gym
Badminton