

Curriculum Vitae

MIKKO LEPPÄNEN

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- I currently work as a design engineer at KONE. I'm working closely with motors and everything related to motor control such as AC drives and encoders.
- 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

KONE R&D Design Engineer, Electrical Machines
2014-Present

Vacon Plc R&D Development Engineer
2008-2014

TUT Research Assistant
2007-2008 Tampere University of Technology

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, L^AT_EX, HTML5, CSS3, PHP, SQLite, jQuery, Fortran.
- Scripting: Python, JavaScript
- Technologies: OpenCV, Boost, OpenMP, MPI, PyQt, NumPy, SciPy, Matplotlib
- 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 addition 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 ECPE/Cluster Tutorial: Part 1 - Thermal Engineering of Power Electronic Systems (Thermal
2011 Design and Verification) - Erlangen, Germany

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

XSPIS Cross platform application development using Qt framework
2014

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

Coursera High Performance Scientific Computing course
2014

PERSONAL DETAILS

Place of Birth: Loviisa, Finland

Nationality: Finnish

Military Service: July 2002 – July 2003

HOBBIES

Mountain biking

Indoor rowing

Programming

Gym

Badminton