

ILIA KEMPI

Hakaniemenranta 12 E 106, 00530 Helsinki
+358 442356562 | contact@iliakempi.com

EXPERTISE

Electronics, programming, embedded systems, telecommunications, technical drawing, electromagnetic compatibility, radiation safety (ST 1.8)

C, C++, JAVA, ASM, LINUX, BASH, AUTOCAD, PADS, KICAD
MATLAB, LABVIEW, MULTISIM, MS OFFICE, ADOBE CS

EDUCATION

M.Sc. in Nano and Radio Sciences 2015 –
AALTO UNIVERSITY, FINLAND

B.Eng. in Electronics 2011 – 15
METROPOLIA POLYTECHNIC, FINLAND
285 / 240 ETSC | GPA 4.9 / 5.0
Peer tutor activity
Education assistant activity

Mechatronics researcher (visiting) 2013 – 14
AKITA NATIONAL COLLEGE OF TECHNOLOGY, JAPAN

Electrical and automation technology 2010 – 11
OULU VOCATIONAL COLLEGE, FINLAND
GPA 2.7 / 3.0
Studies unfinished

Electrical mining machines (vocational program) 2005 – 09
PETROZAVODSK STATE UNIVERSITY, RUSSIA
GPA 4.5 / 5.0
Merit Scholarship
Class president activity

WORK EXPERIENCE

MASSIVE TIMING Helsinki, Finland | 3.2016 –
Co-founder, Hardware engineer
Electronics design, systems engineering, component management

KONE Corporation Hyvinkää, Finland | 5.2015 – 12.15
Tranee, Signalization R&D 4.2016 – 8.16
Technology screening, project support, prototyping



As an outstanding student and passionate co-worker, I've been inspired by technology ever since playing with my first toy constructor.

My objective is to use given resources efficiently and with the right attitude. For me every project is an exciting opportunity to learn something new.

Free time I devote to prototyping, martial arts and philosophy.





WORK EXPERIENCE

Various part-time jobs in cleaning and other services 2011 – 13

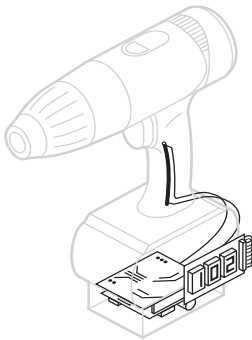
CityLink LLC Kostomuksha, Russia | 6.2008 – 8.10
Technical support
Ethernet LAN maintenance, customer service, network hardware troubleshooting.

LANGUAGE SKILLS

FINNISH	fluent
ENGLISH	excellent
RUSSIAN	native
JAPANESE	conversational

PROJECTS

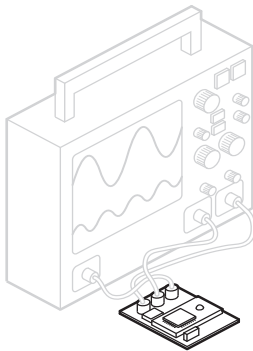
TORQUE METER



Device is developed in Metropolia UAS for ABB as an industrial innovation project. This meter can be used to calibrate brakes with certain level of precision.

My contribution is design and implementation of current sensing circuitry together with shielding enclosure. I have made measurement program based on TI MSP 430 microcontroller and successfully evaluated the drill motor characteristics. I also actively participated in further improvement and calibration of the system, which led to production of standalone measurement device as a proof of concept.

DSP EDUCATIONAL PLATFORM



Customizable signal processor with front end user interface has been developed for hands-on laboratory exercises in Digital Signal Processing course at Metropolia Polytechnic.

My contribution is software design for the whole system. With an ARM CORTEX M3 microcontroller I set up a processing unit which is addressable with remote procedure call. Based on MATLAB environment, I developed an interface, in which the student can configure and test DSP algorithms. Also took part in mass assembly of set of platforms and supervised trial laboratory works.

More information on my website : iliakempi.com

RECOMMENDATIONS

Thierry Baills
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Ilia is a dedicated student and thus far his grades have been exemplary. In class, he has proven to be a take-charge person who is able to successfully develop plans and implement them.

Ilia has also assisted us in our administrative tasks. He has successfully demonstrated leadership ability by counselling new and prospective students. His advice has been a great help to these students, many of whom have taken time to share their comments with me regarding his pleasant and encouraging attitude.