

CURRICULUM VITAE



PERSONAL DATA

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Date of birth:	1978-11-15
Nationality:	Hungarian
Marital status:	Single

EDUCATION

- **Budapest University of Technology and Economics (BME) 2002-2006**
M.S., Faculty of Electrical Engineering and Informatics, Department of Telecommunications and Media Informatics.
 - Thesis topic: IPv6
 - Other department: Sound engineering
- **Budapest Polytechnic, Kandó Kálmán Faculty of Electrical Engineering 1998-2002**
B.S., Communication Engineering, Digital Switching module.
 - Thesis topic: "Interworking of access signalling and SS No.7".
- **Kolos Richárd Technical High School 1993-1998**
Technical based high-school graduation, and technician degree.

PROFESSIONAL EXPERIENCE

- **General**
 - System architect
 - Software development
Codes written in C, C++, Lua, Python, and Shell.
 - Linux
For 15+ years, I use Linux exclusively on my servers and workstations and embedded devices.
 - FreeBSD
Basic knowledge of FreeBSD.
 - Quality assurance.
 - * 6 σ Green Belt.
 - * ISTQB - Foundation Level
 - Hardware development
Digital CPU based, and Linear RF circuits.

- **Silicon Laboratories 2020-Present**



I work as an embedded software developer.

- Bluetooth 5.1 example applications
- New technologies introduction (AoA, AoD)
- BGX

- **Intelliport 2017-2020**



- Architecting a high availability, dual modem, industrial LTE router
- Architecting a transformer monitoring system (Sensformer) for Siemens
- Review schematics and PCB designs
- Gathering customer needs, and feedback of the product.
- Leading technical discussions with the customer and 3rd parties
- Estimating engineering time and effort for implementing user needs (use cases)

- **GE Lighting 2012-2016**



2015 - 2016: I define test methodologies and process of the Indoor Distributed System (IDS) (an indoor lighting controls system). I set up a test environment where automated testing are carried out. Later, I set up a Jenkins based CI system. Design of the SDLC (Release process, and branching methodologies).

2012-2014: I work on platform specification (software and hardware) of the **IDS** project that integrates well with a BAS system, but can work separately when the BAS is unavailable.

Work done:

- System architecture design
- Software platform and architecture definition (interface specification)
- Hardware architecture, and block diagram design
- Writing guidelines for hardware developers
- CI system (Jenkins with several Slaves)
- SDLC definition
- "Git howto"

I attended the 6 σ Green Belt training.

- **Prolan Process Control co. 2009-2012**



I was a hardware engineer, and project leader of an electric smart-meter for electric energy measurement. I was in charge of seeking technical solutions for the product, including selecting the hardware and software architecture, as well as delegating the tasks to others working on the project. I was also involved in other products as an advisor.

Tasks done:

- Hardware design of a GSM interface
- Hardware design of a ZigBee interface (4-layer, BGA board)
- Hardware design of the CPU board
- Software development of some hardware drivers
- Software development for the proof of concept

- **Robert Bosch Ltd., Hungary 2007-2009**



I was a Layout engineer at the AE/ELS group. My tasks were designing PCBs for Automotive Electronic, including diesel and gasoline engine control systems (Motronic), body computer, sensor devices. The layouts were mission critical, optimized for high reliability, and long life. The circuits included high speed buses (lin, microsecunden bus, can), power electronics (spark plug transformer drivers, various power supplies, DC motor drivers, etc), and high speed CPUs.

- **Xperts software ltd., Hungary 2006-2007**



My tasks were:

- Software development in C, C++, Java on Linux environment.
The company produces Netavis, a video surveillance system. I was in charge of IP camera driver implementation, and camera integration into the system.
- Network engineering.
The company has moved to a new site. I was in charge of designing the Ethernet/IP network of the new site.
- Hardware development.
I developed a home PoE system for Cameras installed on site without PoE support, which feeds power to the wall mounted IP devices via their network connections.

- **CERN, Switzerland 2004-2005**



My tasks were:

- Hardware development of a solid state analogue multiplexer for the PS accelerator
- Hardware development of a coaxial relay based analogue multiplexer for the LHC
- Schematic and PCB design
- Low-level software development on RABBIT MCU
C language
- Software development
Linux platform, C language, GTK+ GUI

- **2002**

Linux server installations and maintenance.

- **TelecomFort ltd., Hungary 2000-2001**

My tasks were:

- Installations of GSM equipments (Nokia, Ericsson, Nortel; BTSs, TCUs)
- Installations of microwave links (Minilink-E)
- Measurements on telecommunication equipments
- Clerical works

PUBLICATIONS

- **The IPv6 revolutionary approach - the model**
Kovács Levente BUTE 2006-03-10
- **Software documentation, and specifications of the Analogue 48x8 Multiplexer**
Kovács Levente CERN 2005-02-17
http://jeroen.web.cern.ch/jeroen/misc/mux_doc.pdf

PATENTS

- **Semi automatic commissioning of an indoor lighting system**
Kovács Levente and Simonyi Bulcsu 2013

LANGUAGE SKILLS

- Fluent English, oral and written
- Intermediate level in German

TECHNICAL INTERESTS

- Analog and digital electronics
- The Linux (and other Unix like) operating system
- Low and high level programming
- Embedded systems
- Quality management

OTHER

- **Computing knowledge**
 - Microsoft Windows and its applications
 - Deep knowledge of the Linux OS (administrative, and programming skills)
 - C, C++, Perl, Lua, Python, Shell language programming
 - The computer itself
- **Driving licence (Category “B”)**
- **HAM licence (HAREC, with CW)**

FREE TIME ACTIVITIES

- Electronics, DSP programming
- Sound engineering, video editing
- Guitar, piano, flute, singing
- HAM operating
- Riding the bike
- Ballroom dancing
- Scuba-diving
- Nature