

# Kálmán Benjamin Szőke

## Curriculum vitae

Maléter Pál utca 2. A/2 2.11  
1118 Budapest  
Hungary  
☎ +36 (30) 471 6532  
📄 [livius.web.elte.hu/cv/](https://livius.web.elte.hu/cv/)



### Personal data

Born	August 2nd, 1990 in Budapest (Hungary)	Citizenship	Hungarian
Address	Maléter Pál u. 2 A/2 2.11, 1118 Budapest, Hungary	Driving license	B
e-mail	sz.k.benjamin@freemail.hu	Homepage	<a href="https://livius.web.elte.hu/">https://livius.web.elte.hu/</a>

### Work experience

Name of employer	Robert Bosch Hungary Gyömrői út 104, 1103 Budapest, Hungary
Period	July 2016. - present
Occupation	Measurement development engineer
References	Measurement System for Reliability Testing of MEMS Resonators
Name of employer	Robert Bosch Hungary Gyömrői út 104, 1103 Budapest, Hungary
Period	December 2015. - June 2016.
Occupation	Measurement techniques intern
Name of employer	Eötvös Loránd University - Department of Materials Physics Pázmány Péter sétány 1/A, 1117 Budapest, Hungary
Period	October 2013. - December 2013.
Occupation	Teaching in Classical physics laboratory
Main activity	Teaching undergraduate students to optical measurement methods

### Education

2014–2016	<b>Master's Degree in Mechatronics Engineering</b> , <i>Budapest University of Technology and Economics, Faculty of Mechanical Engineering, Budapest, Mechatronics Engineering M.Sc.</i> Intelligent embedded systems specialization (supervisor: Department of Automation and Applied Informatics)
Principal subjects	Digital and analog electronics, Digital signal processing, Control Engineering, Embedded systems, Image processing, Function Design Techniques

2009–2013 **Bachelor's Degree in Physics**, *Eötvös Loránd University, Faculty of Natural Sciences*, Budapest, *Physics B.Sc.*

Applied physics specialization (former name: IT physicist)

Principal subjects Physics (incl. Quantum mechanics, Solid state physics, Optics), Higher mathematics (incl. Linear Algebra, Fourier analysis, Fourier transform, Differential equations, Vector Analysis, Numerical methods), Analytical methods in physics, Physics laboratories, Signal processing, C/C++ programming, Numerical methods in physics

2005–2009 **High school**, *Mechatronics Technical College and High School*, Budapest, *Graduation*, (Electronics-electrotechnics).

### M.Sc. thesis

title *Efficient implementation of adaptive FIR filters for active noise control applications*  
qualification excellent (5)  
supervisor Dr. László Sujbert

### B.Sc. thesis

title *Stand-by power consumption of the electrical devices*  
qualification excellent (5)  
supervisor Gyula Pávó

### BUTE Faculty of Electrical Engineering and Informatics, Student's Scientific Association 2015

title *Efficient implementation of adaptive FIR filters*  
qualification 2nd place  
supervisor Dr. László Sujbert

### Languages

Self-assessment European level CEFR

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
English	Intermediate	B2	B2	B2	B2	B2

### Computer skills and competences

programming languages C, C++, MATLAB (Simulink), LabVIEW, LabWindows/CVI, GNU Octave, Pascal

script languages Bash, Windows PowerShell

operating systems Windows, Linux (Ubuntu, CentOS)

CAD/CAM softwares CadSoft EAGLE PCB Software, DipTrace Professional PCB Design Software, QUCS Circuit Simulator, Autodesk AutoCAD

any other Analog Devices SHARC Processors, VisualDSP++, Microsoft Visual Studio, L<sup>A</sup>T<sub>E</sub>X, Gnuplot, Microsoft Office, TCP/IP basics

## Study projects

During my studies, my main projects were numerical simulations in computational science, signal processing, control systems and any related programming, algorithm designing (homework, laboratory measurements). As a hobby project i am interesting in web server operation. <http://fizweb.elte.hu/>

Topics <https://livius.web.elte.hu/cv/>

## Technical skills and competences

Analytic approach, fundamentals of electronics and measurement technology, numerical methods and simulation, evaluation and documentation of laboratory measurements.

## Personal skills and competences

Systematic and logical thinking, ability to concentrate under stress, excellent problem solving skills, driving license (B category).