

PERSONAL INFORMATION

Kertész Csaba Zoltán



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 www.github.com/kcs

 [ORCID 0000-0001-7118-1441](https://orcid.org/0000-0001-7118-1441)

Gender Male | Date of birth [Redacted]

JOB APPLIED FOR Research

WORK EXPERIENCE

October 2009 – Present

Lecturer

Transilvania University of Braşov, Romania

Education and research in the domain of embedded systems, digital signal processing, real time operating systems

May 2009 – September 2009

Scientific researcher

Transilvania University of Braşov, Romania

Research in the field of microcontrollers and digital signal processing

Jan 2005 – Oct 2008

PhD Student

Transilvania University of Braşov, Romania

Electronics and Telecommunications Engineering

EDUCATION AND TRAINING

2005–2008

PhD

EQF 8

Transilvania University of Braşov, Romania

Field of study: Electronics and Telecommunication Engineering

Thesis Title: "Contributions to Microcontroller Systems for Monitoring Some Safety Parameters in Buildings"

2004–2006

MSc

EQF 7

Transilvania University of Braşov, Romania

Field of study: Computer Engineering

Thesis title: "CAN analyzer based on MBF91F362 microcontroller"

1999–2004

Dipl. Eng

EQF 6

Transilvania University of Braşov, Romania

Field of study: Computer Engineering

Diploma project title: "Digital Audio Signal Processing on StarCore Architecture"

PERSONAL SKILLS

Mother tongue Hungarian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
Romanian	C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- team work: I have worked in various types of teams from research teams to HAM radio clubs and hiking associations
- intercultural skills: being part of an ethnic minority group, I have good understanding of cultural differences.

Organisational / managerial skills

- coordinated a lot of students for participating in conferences and contests
- member of the global SOTA management team

Digital competences	SELF-ASSESSMENT				
	Information Processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills

- Operating Systems: Linux, Windows
- Programming languages: C/C++, LISP, LaTeX, assembly (ARM, AVR, PIC, SH40), Python, Bash script
- Development environments: gcc, Qt, Matlab, Code Composer Studio, AVRStudio, Embedded Wizard, Eclipse

Other skills Licensed HAM radio operator. Enjoy hiking and activating SOTA (Summits on the Air).

Driving licence B, C, CE

ADDITIONAL INFORMATION

Teaching activities

- Digital Signal Processing
- Digital Signal Processors
- Microcontroller Programming
- Operating Systems
- Real-time Systems

Publications

- Ndagi, A. and **Kertész, Cs.Z.**, “Automatic water distribution system using wireless sensor network”, in *27th International Conference on Information Technology (IT)*, pp. 1–4, Žabljak, Montenegro, 2023.
- **Kertész, Cs.Z.**, “Creating a wiring framework for embedded gui programming course”, in *2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment, (OPTIM)*, pp. 325–330, Braşov, Romania, 2021.
- Rujoi, A.M., Nan, A.G., and **Kertész, Cs.Z.**, “Remote monitoring system for a three-phase electric power grid”, in *2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, pp. 461–466, Braşov, Romania, 2021.

- Gavrilă, C., **Kertész, Cs.Z.**, Alexandru, M., and Popescu, V., “Reconfigurable IoT gateway based on a SDR platform”, in *12th International Conference on Communications (COMM)*, pp. 345–348, Bucharest, Romania, 2018.
- Gavrilă, C., **Kertész, Cs.Z.**, Alexandru, M., and Popescu, V., “SDR-based gateway for IoT and M2M applications”, in *2018 Baltic URSI Symposium (URSI)*, pp. 71–74, Poznan, Poland, 2018.
- Gavrilă, C., **Kertész, Cs.Z.**, Popescu, V., and Sandu, F., “Bandwidth usage management for HbbTV streaming services based on user behavior”, in *IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)*, pp. 1–5, Cagliari, Italy, 2017.
- Gavrilă, C. and **Kertész, Cs.Z.**, “Automated performance testing of end-to-end streaming solutions over HbbTV architecture”, in *13th International Conference on Development and Application Systems (DAS)*, pp. 135–138, Suceava, Romania, 2016.
- **Kertész, Cs.Z.**, “Using github in the classroom – a collaborative learning experience”, in *Proceedings of the 21st International Symposium for Design and Technology in Electronic Packaging (SIITME)*, pp. 381–386, Braşov, Romania, 2015.

Research projects As member:

- CEEEX 60-II03/2006 – COMODICI, Sistem de control și monitorizare la distanță a clădirilor inteligente
- CEEEX 747/2006 – RADROM, Cercetări privind cartarea națională a radonului (în interior și în diferiți factori de mediu) pentru protecția populației în conformitate cu cerințele normelor internaționale și ale UE
- PNII – P4 21-018/2007 – TRANS-SUPERCAP, Sisteme electrice optimizate energetic pentru transportul terestru utilizând baterii și supercondensatori
- PNII – P4 11-057/2007 – BIOMED-TEL, Achiziție de semnale biomedicale și tele-transmisie prin echipamente mobile de calcul
- POSDRU 86/1.2/S/54956/2010 – eStart, Program multi-regional de studii masterale în domeniul e-Activități