

KERTÉSZ CsABA-ZOLTÁN

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Work experience

Occupied job	Senior Lecturer
Period	oct. 2009 –
Company	Transilvania University, Brașov
Department	Electronics and Computers
Job description	research and education in the field of microcontrollers, digital signal processors, real time operating systems and power electronics
Occupied job	Scientific researcher
Period	may 2009 – sep. 2009
Company	Transilvania University, Brașov
Department	Electronics and Computers
Job description	research and education in the field of microcontrollers, digital signal processors and power electronics
Occupied job	Research engineer
Period	dec. 2008 – apr. 2009
Company	Transilvania University, Brașov
Department	Electronics and Computers
Job description	research and education in the field of microcontrollers, digital signal processors and power electronics
Occupied job	PhD Student
Period	jan. 2005 – oct. 2008
Company	Transilvania University, Brașov
Department	Electronics and Computers
Job description	research and education in the field of microcontrollers and digital signal processors
Occupied job	Automatization engineer
Period	jul. 2004 – dec. 2004
Company	Continental Automotive Products, Sibiu
Department	ContiTemic R&D center
Job description	embedded systems programming

Education

Earned degree	PhD
Period	jan. 2005 – oct. 2008
Institution	Transilvania University, Brașov, Faculty of Electrical Engineering and Computer Science
PhD thesis title	Contributions to development of microcontroller systems for monitoring of some safety parameters in buildings
Earned degree	M.Sc.
Period	oct. 2004 – feb. 2006
Institution	Transilvania University, Brașov, Faculty of Electrical Engineering and Computer Science
Major	Computer Engineering
Master thesis title	CAN Analyzer Based on MB91F362 Microcontroller
Earned degree	Dipl. eng.
Period	oct. 1999 – jun. 2004
Institution	Transilvania University, Brașov, Faculty of Electrical Engineering and Computer Science
Major	Applied Electronics
Diploma project	Digital Audio Signal Processing on StarCore Architecture

Skills and competences

Mother tongue	hungarian
Other languages	romanian (very good), english (very good)
Technical skills	Experience with microcontroller families: Atmel AVR, Microchip PIC, TI MSP430, Freescale Starcore, Infineon C17x, Fujitsu 8FX, 16L and FR programming languages: C/C++, assembly, Matlab,chora, sh development tools: gcc, Qt, AVR Studio, MPLab, Code Composer, Keil µVision, SoftOne Workbench, Metrowerks Codewarrior, Embedded Wizard
Computer skills	Good knowledge of Windows and Linux operating systems
Driver's license	B,C

Additional information

Embedded projects worked on	Exit door control system description: controlling the exits from a factory and randomly selecting exiting personnel for checking role: junior software developer Frost-free refrigerator control module description: electronic module for adaptive freezing and defrosting in an industrial refrigerator role: lead hardware & software developer
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	<p>Remote radon measurement apparatus description: device for measuring radon concentrations in air and transmitting data to a remote server role: senior software developer</p> <p>Locomotive starting system based on supercapacitors description: system using supercapacitors and batteries to start the Diesel engine of a locomotive role: senior hardware designer</p> <p>LCD TV GUI description: graphical user interface for a new LCD TV set running on Embedded Linux role: senior software developer</p>
Published works	<p>Kertész, Cs.Z., Gerigan C., <i>CAN Bus Analyzer with General Purpose Microcontroller</i>, Proc. of OPTIM'06, vol IV., pp. 61-64, Brașov, 2006</p> <p>Kertész, Cs.Z., Ogruțan, P., Székely, I., <i>Embedded System with Atmega16 for Measuring Radon Concentration</i>, Buletinul Universității Transilvania, pp. 243-248, Brașov, 2008</p> <p>Kertész, Cs.Z., <i>Speed-optimized Fingerprint Image Enhancement for Embedded Systems</i>, Proc. of OPTIM'08, vol IV., pp. 75-79, Brașov, 2008</p> <p>Kertész, Cs.Z., Ogruțan, P., Székely, I., <i>Intelligent Biometric Access Control System with Environment Monitoring</i>, Proc. of SIITME'08, pp. 296-300, Predeal, 2008 — Best Poster Presentation for Young Scientist award</p> <p>Kertész, Cs.Z., Borza, P.N., <i>Starter Aiding System Based on Supercapacitors for the LDE2100 Locomotive</i>, Proc. Of SIITME'09, pp. 239-244, Gyula, 2009</p>
Prizes won	<p>International Hard&Soft Contest, Suceava, 2004 — 3rd place</p> <p>National Microchip Contest, Cluj-Napoca, 2007 — 1st place</p>
Teaching activities	<p>held courses and labs in:</p> <p>Embedded Systems</p> <p>Embedded System Design</p> <p>Digital Signal Processing and Image Processing</p> <p>Operating Systems</p> <p>Real-time Operating Systems</p>