

# Ádám Vas

## PERSONAL DATA

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RESEARCHGATE: [researchgate.net/profile/Adam\\_Vas2](https://researchgate.net/profile/Adam_Vas2)

## EXPERIENCES

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JUN 2011-  
*Current* | LabVIEW Developer at VTMT LTD.  
- Developing and implementing IT features for industrial leak detector systems based on National Instruments real-time controllers  
- Integration into online production control systems  
- GUI applications for Windows and NI Touch Panel Controllers connected to the leak detectors  
  
- Using LabVIEW + Real-Time Module + Touch Panel Module

## EDUCATION

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SEP 2013-  
*Current* | PhD in COMPUTER SCIENCE, **University of Debrecen**  
Thesis: "Distributed Sensor Network for meteorological observations and numerical weather Prediction Calculations"  
  
- Building a network of interconnected nodes equipped with sensors that are capable of:  
- Measuring and exchanging atmospheric parameters  
- Calculating weather forecast distributedly, w/o central computer  
  
- Programming PIC microcontrollers in C:  
- distributed algorithms for solution of differential equation systems  
  
- Writing simulations for distributed computational algorithms in Java SE 8  
  
- Writing data processing and statistical analysis scripts in MATLAB to process and visualize large datasets of historical meteorological data

SEP 2011-  
JUN 2013 | MSc in SOFTWARE INFORMATION TECHNOLOGY, **University of Debrecen**  
*Hardware Programming*  
Thesis: "Microcontroller-based network for meteorological sensing and weather forecast calculations"  
  
- Programming PIC microcontrollers in C:  
- analog and digital (I<sup>2</sup>C, SPI) sensors  
- TCP/IP communication  
- XTEA-encrypted Internet Bootloader

SEP 2007-  
JUN 2011 | BSc in ENGINEERING INFORMATION TECHNOLOGY, **University of Debrecen**  
*Information and Communications Technology*

Thesis: "Experimental Ultrasound-CT"

- Studying TCP/IP, telecommunication networks (CCNA, CCNP courses) and basic hardware design (Verilog)
- Building an experimental ultrasonic imaging device
- Programming National Instruments PXI hardware (multiplexer, signal generator, oscilloscope) connected to ultrasonic transducers and receivers in C and LabVIEW

## ACHIEVEMENTS

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- 2011 Excellent Student of University of Debrecen
- 2010 4<sup>th</sup> place at National Instruments' "NI Students' Competition 2010"
- 2009, 2010, 2012 Fellowship granted by the Republic

## SKILLS

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C, Java, MATLAB, LabVIEW, C++, embedded systems, MCUs, TCP/IP, CCNA, CCNP, Verilog, Git, Linux, parallel computing, data analysis, statistics, agile, scrum, CI (Gerrit, Jenkins), TDD

## PERSONAL SKILLS

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autonomous, conscientious, precise, good learning skills, openness to new areas, proactivity, analytical thinking, good problem solving skills

## OTHERS

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- ENGLISH: Professional working proficiency
- DRIVING LICENCE: Category B
- INTERESTS: I like to cycle and ride horses.  
I like working with public address systems.