Ján Valiska

Curriculum vitae

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Work experiences

2015–presence	**Kybernetika s.r.o**, *Programmer/Analyst*, Košice.
2012–2015	**T-Systems s.r.o**, *ICT Administrator*, Košice.

Software projects

2015–2017   **Quality check of forgings** – Software for checking geometric parameters of forgings. Used technologies:
- C++
- CUDA, PCL, VTK, Eigen, OpenCV
- TCP/IP using `boost::asio`
- Oracle DB
- SICK 3D sensors

2016–2016   **Quality check of piezoelements** – Software for checking of salience and thickness of piezoelement. Used technologies:
- C++
- CUDA, PCL, VTK, Eigen,
- TCP/IP using `boost::asio`
- Keyence 3D sensor

2016–2016   **Videograbber** – The software that records videosequence from slow motion industry camera. Used technologies:
- C++
- TCP/IP using Windows API
- OpenCV
- Allied Vision sensors

2015–2015   **TVA Marker** - The software recognizes text marked on metal coils from both top and side view. Used technologies:
- C++
- TCP/IP
- OpenCV
- Allied Vision sensors

Education

2011–2015	**Doctoral degree**, *FEI TUKE*, Košice, Telecommunication.
2009–2011	**Master degree**, *FEI TUKE*, Košice, Multimedia telecommunication.
2005–2009	**Bachelor's degree**, *FEI TUKE*, Košice, Telecommunication.
2001–2005	**High school**, *SPŠE*, Michalovce, Telecommunication technics.

Doctoral thesis

Title	*Object tracking in video-sequences using Bayesian filters*
Supervisor	prof. Ing. Stanislav Marchevský, CSc.
Description	The work is focused on developing and testing of particle filters performance using various devices. Objects are represented using single color or color histograms.

Master thesis

Title	*Analysis of MPEG-2 transport stream structure*
Supervisor	prof. Ing. Dušan Levický, CSc.
Description	The work is focused on developing and testing of the transport stream analyzer. Software was implemented in Python language using PyQT graphics library.

University projects experiences

2013–2015	**UWB-SeNet**, *Short-Range UWB Sensor Networks for Detection, Localization and Tracking of Moving Persons*, *Software developing and testing of UWB radar system on 32-bit ARM architecture microprocessor boards(Linux*, TUKE Košice.
2013–2015	**PerLoc-3D-UWB**, *Persons Localization in 3D Under Emergency Event based on UWB Radar System*, TUKE Košice.
2011–2012	**CE II**, *Center of Information and Communication Technologies for Knowledge Systems*, ITMS 26220120030, TUKE Košice.

Teaching experiences

2013	**SPŠE**, *Two months experience in Informatics course*, Arduino programming in C/C++ language, Košice.
2012–2014	**T-Systems s.r.o**, *Internal Linux/Bash programming trainer*, Košice.

Languages

English	writing form–advanced, speaking–intermediate

Computer skills

Operating systems	GNU Linux, MS Windows, FreeDos	Typography	LaTeX, LibreOffice
Programming	C++11/14/17, Python, Bash, C, Matlab, Ruby, PHP, HTML, CSS, javascript	Web frameworks	jQuery, Nette Framework, Rails, Bootstrap
C++ Libraries	OpenCV, Boost, Eigen, PCL, VTK, Qt, Oracle OCCI, Beast	Project&Version control	CMake, git
Unit testing	Catch, GTest	IDE/Editors	Vim/Neovim, QtCreator, CodeLite, Visual Studio 2010/2015, Atmel Studio
Databases	Oracle, MariaDB, MySQL, MS SQL		
OS Linux	12 years of experiences in *Linux* operating systems.		
Scripting	Operating system automation using Bash/Python scripts		

Skills in electronics

Embedded devices	Developing of simple systems using Arduino or other 8–bit AVR based or 32–bit ARM devices. Realised projects: Church 3–digit numeric display(IR controlled), Rotating coder controlled timer with 2x16 character LCD display, IR controlled HIFI DAC using Raspberry Pi ARM board.
PCB	Design and realisation of printed circuit boards using KiCAD software. Developing of PCB using negative photo–resist method

Competences and certificates

- Driving license, types: B1, B, AM
- Cisco Certified Network Assocciate(1–4.semester)
- T–Systems internal security certifications

Interests

Open–source software	I like open–source software.
Free time	Family, literature, meaningful movie and soft–rock songs.

Personal informations

Date of birth	*14.10.1986* in Michalovce
Family state	married