

József Pálfalvi

PERSONAL DATA

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QUALIFICATIONS SUMMARY

My strengths are lying in:

- A performance-driven personality, with a proven ability to achieve and exceed all developments goals, as well as the strategic goals of the company in high-pressure environments.
- I have a proven ability to work as part of a team, and to work with people at all levels.
- I am proactive and problem solving oriented.
- I am able to prioritize effectively and work with tight deadlines.

From a professional point of view, as my studies are reflecting, my main fields of interest are image processing, artificial intelligence (machine learning), 3D graphics and machine vision, and I am open for new professional challenges that could deepen my knowledge. I have a professional experience in C++, .NET C# and Java programming.

PROFESSIONAL EXPERIENCE

10/2011 – 11/2012 BEXUS (Balloon Experiments for University Students) international space program, ESA project

- Development of a communication software (C++ language, Qt4)
- Graphical interface design and data visualization
- <http://www.rexusbexus.net/>

05/2012 – 08/2012 Own project

- Kinect based augmented reality application: Virtual Video Frame
- .NET C# (WPF), OpenNI
- http://arena.openni.org/OpenNIArena/Applications/ViewApp.aspx?app_id=656

02/2011 – 07/2012 BME-VIK, MIT, Intelligent Systems

- Design and development of algorithms for fall detection and gesture recognition
- Kinect software development for fall detection and gesture recognition (.NET C# WPF language)

11/2009 – 08/2011 BME-VIK, MTA MFA - Institute for Technical Physics and Materials Science

- Design and development of algorithms for analyzing microscopic particles (image processing, morphological analysis, analytical function fitting)
- Development of image processing software for particle analysis (.NET C#, Java, MATLAB languages)

01/2009 – 06/2009 BME-VIK, MIT, Intelligent Systems

- Programming of robotic cars (FPGA, C and Assembly languages)
- Development of a software for autonomous navigation of robotic cars (artificial intelligence, .NET C# language)

08/2005 – 01/2011 MTA KFKI AEKI - Research Center for Natural Sciences

- Analysis and measurement of cosmic ray detectors (solid state nuclear track detectors)
- Development of supporting software for detector evaluation (Java)

08/2010 – 10/2012 nomo Bt.

- Development of webportals (videa.hu, prex.hu) and Content Management Systems (PHP, JavaScript, HTML, CSS)

EDUCATION

Computer Engineering BSc (Bachelor), MSc (Master)

Budapest University of Technology and Economics (BME), Faculty of Electrical Engineering and Informatics (VIK) – Department of Measurement and Information Systems, Intelligent Systems Specialization

Topic of my Bachelor thesis: Analysis of microscopic particles with image processing algorithms

Topic of my Master thesis: Kinect based ambient intelligence in AAL applications

FURTHER SKILLS

Languages

- Hungarian (native)
- Slovak (native)
- English (fluent)
- German (higher intermediate)

Driver license (B category)