

CURRICULUM VITAE

PERSONAL DETAILS

Name: Róbert Pethes
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PROFESSIONAL EXPERIENCES

September 2015 - **PHD STUDENT AT ÓBUDA UNIVERSITY**

September 2013 -
February 2016 **HAND-IN-SCAN LTD.**

Image processing and machine learning in embedded environment (C++, Qt, OpenCV):

- Hand segmentation
- Build colour model
- Hand washing evaluation using machine learning algorithms
- Build shape model (active shape model)
- Motion compensation

June 2012-
August 2013 **NNG LTD.**

- Design and implementation of the NNG white box test framework (in Python)
- Car sensor simulation (in Python)
- Randomized event tester (in Python)

April 2010 –
May 2012 **MTA-SZTAKI DATA MINING AND WEB SEARCH GROUP**

Data mining, information retrieval and distributed data processing tasks in C++, Java and Python:

- Implementation of several moduls in SZTAKI Search Engine (ranking algorithms, refactoring)
- Distributed indexing and searching task using Hadoop, Hbase and Katta
- Graph visualization
- Natural language processing and information retrieval tasks

2009 - 2010 **3DHISTECH LTD**
several C++ programming tasks

2007 - 2008

COLLEGIUM BUDAPEST

I was a member of ENGA development team. (ENGA - Evolutionary Neurogenetic Framework: a software aimed to simulate evolution of neural networks) Main tasks:

- Process the results of simulations and overview visualization
- ENGA core developments (C++)
- Develop a C++ multi-threading package to hide the platform dependent threading libraries.

2002 – 2007

CADLINE LTD., Budapest

Design and implementation of several sub-modules of an architectural CAD solution in C++

EDUCATION

- 2015 – : Phd student at Óbuda University
- 2007 - 2011: Szeged University, Bachelor of Mathematics (Correspondence course)
- 2003 - 2006: Szeged University, Faculty of Science, M.S. in Computer Science (Correspondence course)
- 1999 - 2002: Budapest Polytechnic, John von Neumann Faculty of Informatics BSc in Information Technology

TEACHING ACTIVITY

- Lecturer at Óbuda University at the spring semester of 2015/2016 academic year: Fourier analysis and function series (In English and in Hungarian)
- Lecturer at Óbuda University at the autumn semester of 2016/2017 academic year: Queueing systems (In English and in Hungarian)

LANGUAGE: English - Intermediate level

Budapest, September 12. 2016

Róbert Pethes