Attila Nagy
Curriculum Vitae

CONTACT

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EDUCATION

MSc. Computer Science
University of Gothenburg, Sweden   `09/2012 – 04/2014`

Transcript of records is available on demand.
Thesis: Energy Efficient, High-speed Communication in Wireless Sensor Networks

ERASMUS
University of Applied Sciences Ravensburg-Weingarten, Germany   `09/2008 – 01/2009`

BSc. Electrical Engineering
Obuda University, Hungary   `09/2004 – 06/2009`

Specialization: Embedded Systems
Thesis: Robot Simulation in OpenGL Environment

WORK

Nokia Siemens Networks   `08/2009 – 08/2012`
Software Engineer, Budapest, Full-time

Programming:	C/C++, Python, Perl, BASH
Testing:	CxxTest, testAnt, Jenkins
Debugging:	GDB, Valgrind, oProfile
Principles:	Scrum, Agile, TDD, KISS

Reference is available on demand.

LANGUAGES

Hungarian (mother tongue)
English (fluent)
Swedish (basic)

INTEREST

Technical:	functional programming
	Haskell
	free/open-source software
Sports:	rock climbing
	slacklining

WORK PROJECTS

Nokia Siemens Networks Years

During my three years at NSN, I was part of two teams: HLR, and DXA; both followed agile principles and aimed to incorporate scrum methodologies into the daily work. On top of that, in my last year I became the scrum master of a team of 6 people.

HLR
`08/2009 – 05/2010`

In this project I mainly was occupied by unit testing using a Nokia specific language, call TNSDL. Later I moved to DXA, a project started from scratch requiring more complex and deeper knowledge.

DXA
`05/2010 – 08/2012`

My tasks in this project covered several stages of the development process including implementation, unit and functional testing, and maintenance using a wide range of programming languages, tools and protocols, such as: C++, Python, Perl, BASH, GDB, oProfile, Valgrind, CxxTest, testAnt, Jenkins and LDAP.

STUDENT PROJECTS

Master's Student Years
Thesis
`06/2013 – 04/2014`

The thesis involved an already existing low-power, low-delay, opportunistic routing protocol for wireless sensor networks implemented on the TinyOS platform using a component-based, event-driven programming language devised for embedded systems, called nesC. My task was to extend this protocol for bulk-transfer scenarios and to test it on real testbeds. Future publication on this work is highly probable.

Student Research
`10/2013 – 03/2014`

Beside the course lectures and laboratory exercises, I was part of a research project cooperating with three lecturers from Chalmers University. The project involved smart meter disaggregation and automatic classification by several classifier algorithms, mostly support vector machine, using electricity consumption data from smart grid networks.

Carolo Cup Project
`09/2013 – 02/2014`

Carolo Cup is an international student competition for self-driven miniature vehicles organized annually in Germany. During the preparation for the next competition held in February, 2014, I further experienced the merits of team work in the perspective of the team leader for the software team containing students from both Gothenburg and Chalmers Universities.

Bachelor's Student Years
Thesis
`01/2009 – 05/2009`

Robot simulation in a 3D, OpenGL environment using C language with GLUT API.

Student Project
`01/2008 – 05/2008`

Assembly of a remote controlled miniature car using an 8 bit Atmega micro-controller, DC motors, a Bluegiga WT12 bluetooth module and a purely mechanical miniature car. Finally I had the opportunity to try out a subset of the techniques and technologies that I learned about during my lectures, namely: the design and simulation of a circuit diagram and layout using EAGEL, etching of a printed circuit board, soldering and assembly of the components.