Attila Nagy

Curriculum Vitae

PERSONAL DETAILS

Date of Birth	August 27, 1985
Address	2A Mejerigatan 41276, Gothenburg, Sweden
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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.