Attila Nagy

Curriculum Vitae

PERSONAL DETAILS

Date of Birth	August 27, 1985
Address	Nordanvindsgatan 4A 41717, 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 Scholarship
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

Volvo Cars Corporation — 07/2014 – 07/2016
Self-Driving Car Engineering, Sweden, Full-time

Programming:	Matlab, Simulink, Python, C++
Applications:	Data-Analysis, Sensor-Fusion, Mapping, Logging
Principles:	Scrum, Agile

Nokia Siemens Networks — 08/2009 – 08/2012
Software Engineer, Hungary, Full-time

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

INTEREST

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

WORK PROJECTS

Volvo Cars

Active-Safety 07/2014 – 07/2016

I spend two years at Volvo Cars Corporation in Sweden as a Self-Driving Car engineer in the DriveMe project's Active-Safety team working on state-of-the-art technologies in the field of data logging, sensor fusion, and map creation. In the Active-Safety team I was mainly occupied by post-processing and fusing data from different GPS and LIDAR sensor providers.

Nokia Siemens Networks

HLR 08/2009 – 05/2010

In this team I mainly was occupied by unit testing using a Nokia specific language, called TNSDL.

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. On top of that, in my last year I became the scrum master of a team of 6 people

STUDENT PROJECTS

Master's Student

Thesis 06/2013 – 04/2014

The thesis involved a 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.

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 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

Thesis 01/2009 – 05/2009

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

Project Course 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 lego car.