



# Attila Nagy

*Curriculum Vitae*

## PERSONAL DETAILS

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*Date of Birth* August 27, 1985  
*Address* 2A Mejerigatan  
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## EDUCATION

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### 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

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### 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

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Hungarian (mother tongue)

English (fluent)

Swedish (basic)

## INTEREST

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*Technical:* functional programming  
Haskell  
free/open-source software

*Sports:* rock climbing  
slacklining

## WORK PROJECTS

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### Nokia Siemens Networks Years

During my three years at NSN, I was part of two teams; 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

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### 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.