



## Aleksander Tõnnisson

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Estonian  
Born 16. Sept. 1984  
Married, 2 children

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### Education

2005 – 2008 Tartu University  
2002 – 2005 Tartu University  
1999 – 2002 Nõo Gymnasium

Master of Science in Engineering, Computer Engineering  
Bachelor of Science in Engineering, Computer Engineering  
Physics class

### Work experience

2013 – today Tartu University

**Program manager for computer engineering** - responsible for the quality, development and co-ordination of the computer engineering curricula at bachelor and master levels in the faculty of science and technology.

2008 – today ESG Elektroniksystem-  
und Logistik-GmbH

**Software engineer** - developing software for the German navy fight and transportation helicopter and airplane simulators, participating in R&D projects developing air traffic control solutions for the German air forces.

Company activities: leading system and software house in Munich, Germany in the following categories: aviation, IT and communication, automotive, vetronic systems, logistics, commercial vehicles, naval systems, telecommunications and transportation.

2008 Tartu University

**Lecturer and tutor** - giving lectures and practices in Microprocessor course on FPGAs and VHDL and laboratory exercises on computer architecture.

2005 – 2008 Estonian Aviation  
Academy

**Project manager in R&D dept., simulator maintenance engineer and lecturer** - managing development projects, running internal combustion laboratory, running, developing and maintaining Flight and Navigation Procedure Trainer Type II MCC, Flight Management System and Air Traffic Control simulators, giving lectures on Unix, Java Programming and Air Traffic Network.

2002 – 2004 Interspectrum LCC

**IT specialist** - maintaining company's computer network and website, programming hardware, writing test scripts for software.

Company activities: development and manufacture of infrared spectrometers.

### Training

2011 ESG Automotive

**MATLAB, Simulink and Stateflow in model based simulation** – 2 day workshop about best practices using MATLAB for simulation purposes.

2010 Rohde & Schwarz International

**Radio back-up device of the German army's air fleet** - 1 day training on how to use and set-up the radio back-up device used on many German air force aircrafts.

2010 COMM-TEC AVIT Control

**Programming with Stardraw control** - 2 days of training on control systems and software for the AV media and facility management technology.

2009 Enterprise Architect

**UML in software design** - 2 days of training on using UML in the whole life cycle of the software engineering.

2009 INSEAD Business School

**Asian markets, funding, investments and start-ups** - one week of training in Singapore and Malaysia about the characteristics of the Asian markets, pitching to local business angels, typical start-ups in Singapore and on how to plan an international business.

2008 Enterprise Estonia

**Developing a Business Plan** - altogether 15 days of training on how to create business plan, find foreign partners, apply for funding, find investors, develop your product, legal issues and how to be mentally prepared to start your own company.

2007 Tartu University Open University	<b>Developing e-learning materials</b> - 3 credit points worth of training on how to prepare and present learning content in an e-environment and how to motivate your students to work.
2004 The Southwestern Company	<b>Student Manager Training</b> - main focus of training was on recruiting your own selling team and motivating them through the summer selling books door-to-door. Also how to focus your own energy to get more customers. I and my team were working in Florida, USA.
2003 The Southwestern Company	<b>Dealer Training</b> - main focus was on how to be active, effective and always positive salesman 6 days a week, 13,5 hours a day. I was working in Idaho, USA.
2003 Bruker Optics Inc.	<b>Testing software QARun</b> - 3 days of training in Germany on software testing environment QARun to write testing scripts for Bruker Optics software OPUS.
	<b>Other assets</b>
2013	<b>Main organizer of 2013 Diligent Design Contest Estonia</b> – first ever Estonian regional competition, which is part of the worldwide digital design and FPGA programming contest.
2011	<b>Member of the Jury at the 2011 Diligent Design Contest International Finals</b> – worldwide finals held in Munich, Germany.
2010	<b>TestDaF language certificate</b> – scored 95% percent on the German language examination for the foreign learners who plan to study and/or teach in Germany.
2009 and 2007	<b>Finishing two times in top-10 in a business plan competition “The Brainhunt”</b> - the Brainhunt is nationwide competition in Estonia to find new and innovative business plans and its goal is to motivate young people to start their own company.
2008 and 2005	<b>Master and Bachelor Thesis</b> – defended master as well as bachelor thesis on the subject of Field Programmable Gate Arrays (FPGA) on the grade A – excellent.
2007 and 2006	<b>Thank you letters from Estonian Aviation Academy</b> – 2 times recognition for significant input on procurement and implementation of FNPT II MCC Simulator and ATC Simulator in the project SIMUTAC (simulator for Tartu Aviation College) with project budget exceeding 1 million Euros.
2006	<b>Skydiving training</b> – three days of intensive training followed with the two jumps from the height over the 1100m. taking a lot of courage and self motivation.
2005	<b>Elion scholarship</b> – onetime benefit given only to one student every year to motivate students learn IT.
2004 and 2003	<b>Southwestern Company Gold Award with Gold Seal</b> - price which is given to all salesmen working for Southwestern Company who work at least 80h. every week throughout the summer selling books door-to-door.
2004 and 2003	<b>Southwestern Company Big Check Award</b> - price which is given for precise and orderly bookkeeping through the summer selling books door-to-door.
	<b>Spoken languages</b>
	<b>Estonian</b> – mother tongue <b>English</b> – very good in speech and writing <b>German</b> – very good in speech and writing <b>Russian</b> – intermediate in speech
	<b>Computer skills</b>
	<b>Programming languages</b> – C++, C#, Java, VHDL, html, php, SQL <b>Programs and libraries</b> – Visual Studio, Qt Creator and Designer, Qt and boost libraries, MATLAB, Simulink, Stateflow
	<b>Leisure and interests</b>
	<b>Sport</b> – swimming, downhill skiing, fitness training <b>Music</b> – acoustic and bass guitar <b>Other</b> – motorcycles, traveling, economy