

Curriculum Vitae

Martin Toft

Personal Information

Born:	November 26, 1984	Phone:	+45 60 84 15 25
Nationality:	Danish	Email:	mt@martintoft.dk
Home address:	Sigrid Undsets Vej 238A 9220 Aalborg Øst Denmark	Homepage:	www.martintoft.dk
		Relationship status:	Single

Education

2006–2009: Master of Science in Computer Science and Mathematics, elite student programme in embedded software, Aalborg University.

2003–2006: Bachelor Degree in Computer Science, Aalborg University.

2000–2003: Higher Technical Examination (HTX), Nordvestjysk Uddannelsescenter/EUC Nordvest and Thisted Gymnasium og HF-kursus, Thisted.

Work Experience

August 2009 – present: PhD student, the Distributed and Embedded Systems (DES) research unit, Department of Computer Science, Aalborg University. I do research within the topic of program analysis, specifically on methods for determining safe and tight worst-case execution times for software running on embedded hardware platforms featuring caching and pipelining. My PhD supervisors are professor Kim Guldstrand Larsen and assistant professor René Rydhof Hansen. Besides research, I am a teaching assistant and supervise project groups within computer science, software engineering and other related areas.

September 2007 – June 2009: Student developer, Department of Mathematical Sciences, Aalborg University. I was part of a three person team doing systems administration, network administration and helping staff and students with IT related problems.

May 2007 – August 2007: Student developer, Google Summer of Code 2007, Google Inc. I fixed a long list of complex bugs in the popular, open source, 370,000-lines-of-C-code editor Vim (www.vim.org).

Publications

A. E. Dalsgaard, M. C. Olesen, M. Toft, R. R. Hansen and K. G. Larsen. *WCET Analysis of ARM Processors using Real-Time Model Checking*. Extended abstract for the SSV 2009 Doctoral Symposium held during the Fourth International Workshop on Systems Software Verification (SSV 09), June 22–24, 2009, Aachen, Germany.
<http://martintoft.dk/projects/dsssv09.pdf>

Voluntary Work in Associations

- September 2006 – present: Member of F-klubben (www.fklub.dk), the social association connecting students and employees from the computer science, mathematics and physics departments at Aalborg University. I have been in charge of the association's cult film club, have co-organized numerous parties, and have had many bar shifts.
- April 2008 – April 2009: Vice chairman, The Tenants' Association, C. W. Obel Kollegiet, Aalborg.
- October 2004 – November 2008: Systems and network administrator, The IT Association, C. W. Obel Kollegiet, Aalborg. I administrated a computer network shared by 200 apartments (approx 300 residents), which featured a fast Internet connection through Forskningsnettet (www.forskningsnettet.dk).
- October 3–4, 2008: Helper, Open Source Days 2008, open source conference held at the IT University of Copenhagen, approx 1,800 day-tickets sold.

Received Awards

Together with Andreas Engelbrecht Dalsgaard and Mads Christian Olesen, I received “Roblon Prisen 2009” at Aalborg University's 35th anniversary party and doctor promotion event on November 3, 2009. We received the award due to the very successful project work that preceded our joint master thesis entitled “Modular Execution Time Analysis using Model Checking”. The award included 35,000 DKK for each of us.
More information: <http://presse.aau.dk/nyheder/4554874> (only available in Danish).

Language Knowledge

- Danish: Native language.
- English: I speak and write English fluently and have four and a half year of experience in writing technical reports and papers in the language.
- German: I am able to understand most German but not speak it fluently.

Programming Language Knowledge

- Experienced: C, Python, PHP, Java, Ruby, Unix shell script, assembler code.
- Limited experience: C#, SML, Vim script, Scheme, Prolog, AspectJ and Eiffel.

Leisure Pursuits

I enjoy many activities, including: partying with friends; playing badminton; hunting with my father, brother and my parents' dogs; listening to heavy metal music; working out in the fitness center; reading books on computer science, mathematics and interesting people; watching classic and cult movies; watching entertaining television series on science and criminal investigations; ballroom dancing; cooking old-fashioned, Danish dishes using the game I bring down when hunting.

Miscellaneous

I have a driving license and a hunting license. I am a non-smoker.