

Curriculum Vitae

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Personal Information

Name	Jonas Martin Thomsen
Born	March 15, 1977 in Aarhus, Denmark
Nationality	Danish citizen
Social status	Married to Stine Gammelgaard
Children	Caroline, born February 23, 2004 Julie, born September 1, 2006
Languages	Danish (native) English (fluent) German (limited)

Contact - private

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Research Areas

Communication: protocols, wireless, powerline. Integration of residential appliances.

Relevant Work Experience

2007 –	IT-Architect at IBM Global Business Services, Application Innovation Services, accredited in Infrastructure Architecture
2006	Research Assistant Professor at University of Aarhus, working on software architectures and SOA architecture verification.
2004	Employed at IBM Research Lab in Zurich, Switzerland, working on communication protocols for sensor-networks.
2001 – 2002	Researcher within digital signal processing of high quality audio at TC Electronic A/S.
1998 – 2000	Software developer at InterVision / Expoint, which build web-based presentation solutions.
1996 –	CEO and owner of small computer reseller company. Delivers IT solutions for small businesses, including webhosting. Operates our own data center.
1996 – December 1997	Manager of Inter-Data Aarhus, a computer hardware store.

Education

February 2003 – February 2006	PhD student, Department of Computer Science, University of Aarhus. Advisor: Søren Christensen.
January 2003	Cand. Scient. (Master of Science), with main subject in computer science and subsidiary subject in mathematics.
January 2001	Bachelor in mathematics and computer science, University of Aarhus.
September 1997 – January 2003	Mathematics and computer science study, University of Aarhus.
Medio 1993 – Medio 1996	High School, Mathematical line, Horsens Statsskole.
Medio 1991 – Medio 1993	Public School, Hovedgård Skole, Horsens.
Medio 1989 – Medio 1991	Public School, Søvind Skole, Horsens.
Medio 1986 – Medio 1989	Public School, Ryde Skole, Vinderup.
Medio 1983 – Medio 1986	Public School, Samsøgade Skole, Århus.

Research Projects

March 2006 – December 2006	eu-DOMAIN. The EU-funded STREP project is a large, multi-national research and development project developing a complex service-oriented middleware platform.
October 2004 – December 2004	IBM Secure Trade Lane. The project is a foundation to monitor containers during transportation and by digitally encrypting and signing all information, adding thrust that a container has not been modified since it left its origin.
March 2004 – June 2004	Analysing the possibilities for controlling power consumptions in private households, by using pervasive computing. Ended up by giving the major invited talk at the national Danish power congress on interactive power measuring, June 2004.
2003	Enabling Pervasive Computing in Reality (EPCiR). The project analyses and experiments with the tension between existing and emerging pervasive computing technologies with focus on the technological, use, and business opportunities within the next years.

Teaching Experience

August 2004 – September 2004	Managing the computer science contribution of “Natur I Teltet”, a week-long tent, where science is presented to children and the general public.
February 2004 – April 2004	Lecturer, distributed systems course, Open Education, University of Aarhus.
February 2004 – April 2004	Managing teaching assistant, distributed systems course, Department of Computer Science, University of Aarhus.
August 2003 – September 2003	Managing the computer science contribution of “Natur I Teltet”, a week-long tent, where science is presented to children and the general public.
February 2003 – May 2003	Teaching assistant, distributed systems and security course, Department of Computer Science, University of Aarhus.
August 2002 – September 2002	Co-managing the computer science contribution of “Natur I Teltet”, a week-long tent, where science is presented to children and the general public.
August 2001 – September 2001	Participating in the computer science contribution of “Natur I Teltet”, a week-long tent, where science is presented to children and the general public.
August 2000 – September 2000	Participating in the computer science contribution of “Natur I Teltet”, a week-long tent, where science is presented to children and the general public.
1994	Drum teacher, Public Music School, Hovedgård.

Invited Talks (selected)

June 2004	Management of Power Consumption in Residences by Pervasive Computing, The National Congress of “Value of Interactive Power Metering”.
May 2004	Security in web-applications, Microsoft University Road Tour 2004, Denmark.

Session Chairing

March 2004	Charing session on the IADIS Applied Computing 2004 conference, Lisbon, Portugal.
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Research Bibliography

2006	Thomsen, J. Home Appliance Integration by Pervasive Computing. PhD Thesis
2005	Thomsen, J. (2005). OSGi-based Residential Gateway Replication. To appear in Proceedings of the IADIS Applied Computing Conference 2006.
	Thomsen, J., Husemann, D. (2005). Evaluating the Use of Motes and TinyOS for a Mobile Sensor Platform. To appear in Proceedings of the IASTED Parallel and Distributed Computing and Networks Conference 2006
2004	Hansen, K.M., Larsen, S.B., Pagter, J.I., Pedersen, M.Ø., and Thomsen, J. (2004). An Evaluation of an OSGi-Based Residential Pervasive Computing Platform. To appear in Proceedings of the IADIS Applied Computing Conference 2004.
2003	Mangaard, R., Thomsen, J. Analysis of GSM Handover using Coloured Petri Nets. Master's thesis.

Technical Reports

2006	Hansen, K. M. & Thomsen, J. (2006): Runtime Monitoring and Interpretation of Service-Oriented Architectures
2005	Thomsen, J. (2005). Towards Demand Response: Automating Response to Changes in Energy Prices by Pervasive Computing.
2004	Thomsen, J. An SMS based Communication Framework in Java.
2003	Hansen, K. M., Larsen, S. B., Pagter, J. I., Pedersen, M. & Thomsen, J. (2003), Pervasive Scenario Evaluations: A multiperspective approach for evaluating emerging pervasive computing technologies, Technical report, ISIS Katrinebjerg.
	Hansen, K. M., Larsen, S. B., Pagter, J. I., Pedersen, M. & Thomsen, J. (2003), An Evaluation of an OSGi-Based Residential Pervasive Computing Platform, Technical report, ISIS Katrinebjerg.

References

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