

ANDERS THAVLOV

CONTACT INFORMATION

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PERSONAL DATA

PLACE AND DATE OF BIRTH: Copenhagen, Denmark – 3rd of June 1979
FAMILY: In a relationship and father of two

EMPLOYMENT AND EXPERIENCE ABROAD

- | | |
|---------------------------|---|
| <i>Since</i>
SEP 2015 | Postdoc at DTU ELEKTRO, TECHNICAL UNIVERSITY OF DENMARK
As a Postdoc, I have been involved in several projects, as listed in the project section below. <ul style="list-style-type: none">– In the PowerLabDK project, I have developed of a methodology for validation of power system services delivered by aggregators and implemented the procedure of validation as well as an aggregation framework in the laboratory.– In the ERIGrid project, I was mainly doing project management as manager of transnational access to nine European smart grid laboratories and work package leader of one of 11 work packages.– In the iPower project, I was mainly developing software tools for lab integration of remote hardware run by the industrial partners in the project, e.g. Danfoss and Grundfos.– In the TwinPV project I was mainly developing software tools for lab integration of different computing tools and programming language, e.g. MATLAB and Python. |
| MAR 2012
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JUL 2012 | Visiting Scholar at the DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, UNIVERSITY OF CALIFORNIA, BERKELEY
As a visiting scholar at UC Berkeley, I developed a heat dynamic model of a computer lab on the campus and integrated its heat control into a virtual power plant). |
| FEB 2010
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AUG 2015 | Ph.D. Student at DTU ELEKTRO, TECHNICAL UNIVERSITY OF DENMARK
The objective of my Ph.D. study, was to development a methodology for harnessing the potential of flexible electricity demand through aggregation of residential loads into a so-called virtual power plant (VPP). Using the VPP infrastructure residential energy consumption was optimised with respect to cost of energy or could alternatively be sold as ancillary power system services to system operators. The project was partly financed by and conducted in collaboration with DONG Energy, who provided part of the aggregation infrastructure, i.e. POWER HUB. |
| AUG 2008
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JAN 2010 | Research assistant at the INTELLIGENT ENERGY SYSTEMS PROGRAMME, RISØ DTU
Development of software and visualisation tools for smart energy systems. Integration of access control system, developed by an external party, for control of access to lab entities. |

JUN 2008		Research assistant at DTU INFORMATICS, TECHNICAL UNIVERSITY OF DENMARK
–		Consulting work for the Danish Electricity Trust (Elsparefonden).
JUL 2008		
AUG 2007		Student helper at the WIND ENERGY DEPARTMENT, RISØ NATIONAL LABORATORY FOR SUSTAINABLE ENERGY
–		Development of applications for visualisations of smart grid energy systems.
JUL 2008		
OCT 2005		Night watch at a children's home with special needs at BROEN, GENTOFTE KOMMUNE
–		Part time job as Night watch and caring assistant during the daytime .
AUG 2007		
OCT 2005		Student helper at ATCHIK-REALTIME
–		Part time job for administration of content management system (CMS) for distribution of Java games and ring tones for mobile phones through international mobile operators, including content to the TDC Fly Web portal.
AUG 2007		Software development on in-house CMS . Database migration of CMS database from Oracle to MySQL.
JUL 2000		POST DANMARK
–		Part time job for parcel pickup and delivery for business and private customers.
OCT 2005		
AUG 1999		Military service at BORNHOLMS VÆRN
–		Compulsory military service at the royal Danish Marine corps at Bornholms Værn.
MAY 2000		
JUN 1994		DANSK SUPERMARKET
–		Miscellaneous part time employments at Føtex
2001		

EDUCATION

- SEPTEMBER 2015 | **Doctor of Philosophy (Ph.D.)**
INTELLIGENT ENERGY SYSTEMS
DTU ELECTRO, TECHNICAL UNIVERSITY OF DENMARK
Thesis: *“Power System Integration of Flexible Demand in the Low Voltage Network”*
Supervisors: Henrik W. Bindner (Senior Researcher, DTU Electro)
Klaus B. Hilger (Head of Technical Concept Development, Dong Energy)
Lars H. Hansen (Senior Engineer, DONG Energy)
[– Detailed list of courses and exams](#)
- JUNE 2008 | **Master of Science in Engineering (M.Sc.E)**
APPLIED MATHEMATICS AND COMPUTER SCIENCE
DTU INFORMATICS, TECHNICAL UNIVERSITY OF DENMARK
Thesis: *“Dynamic Optimization of Power Consumption”*
Supervisors: Henrik Madsen (Professor, Head of section, DTU Compute)
Niels Kjølstad Poulsen (Associate Professor, DTU Compute)
[– Detailed list of courses and exams](#)
- JUNE 2004 | **Bachelor of Science (Fagpakke) – APPLIED PHYSICS AND MICRO TECHNOLOGY**
MICROELECTRONICS CENTRE (MIC), TECHNICAL UNIVERSITY OF DENMARK
Thesis: *“Black Silicon Nanostructures”*
Supervisors: Anders Michael Jørgensen (Deputy Director, DTU Danchip)
Jörg Hübner (Director, DTU Danchip)
- JUNE 1999 | **High school, BORUPGAARD AMTSGYMNASIUM**
- JUNE 1996 | **Public school, SMØRUM FRISKOLE**

LANGUAGES

DANISH: Native language
ENGLISH: Fluently

COMPUTER SKILLS

PROGRAMMING: Very experienced in JAVA, MATLAB and PYTHON, R and L^AT_EX.
Experienced in C, C++, C#, MYSQL, POSTGRESQL, JAVASERVER PAGES (JSP) and BASH (Unix shell).
Basic knowledge in HTML, PHP and PEARL

DEVELOPMENT TOOLS: Very experienced user in ECLIPSE IDE, INTELIJ IDEA, APACHE MAVEN, APACHE ANT, GIT, APACHE SUBVERSION (SVN) and CVS.

OPERATING SYSTEM: Very experienced used in WINDOWS and LINUX/UNIX.

OFFICE: Very experienced user of EXCEL, WORD and POWERPOINT.

PROJECTS

- iPower** iPower is a Danish strategic platform where universities and industrial partners consolidates innovation and research activities with the purpose of developing future smart-grid technologies and concepts. The iPower platform links research, innovation and demonstration to actual product development by specifying technologies, requirements and methods for Smart Grid products.
– [link to iPower](#)
- PowerLabDK** This objective of this project was to implement and test aggregators and aggregator algorithms using the laboratory infrastructure provided by DTUs PowerLabDK.
– [link to PowerLabDK](#)
- RTLlabOS** The aim of RTLlabOS was identify best practice and requirements for a future laboratory infrastructure, and from this suggest architecture solutions and develop feasibility studies for the most critical and challenging functionality.
– [link to RTLlabOS](#)
- ERIGrid** Project funded under the European Unions Horizon 2020 programme. The objective of the project is to support and develop new technologies for Smart Grid solutions and concepts in Europe by integration of 18 European smart grid laboratories, thus establishing a joint pan-European research infrastructure. The aim is to develop a holistic methodology for analysing, validating and testing smart grid configurations through jointly developed common methods, concepts, and procedures. Furthermore, ERIGrid offers free transnational access to the partners smart grid research infrastructures.
–[link to ERIGrid](#)
- TwinPV** Project funded under the European Unions Horizon 2020 programme. The project aims to increase the performance of one academic institution (University of Cyprus) by teaming it with other leading research partners in Europe (Technical University of Denmark and Austrian Institute of Technology). The increase in performance is achieved through knowledge transfer and exchange of staff and best practice
– [link to TwinPV](#)

TEACHING

Autumn 2011 – “MODELLING AND ANALYSIS OF SUSTAINABLE ENERGY SYSTEMS” as teaching assistant.

MEMBERSHIPS

- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEER (IEEE)
- DANISH SOCIETY OF ENGINEERS (IDA)
- DANISH SMART GRID RESEARCH NETWORK (DSGRN)

SUPERVISION

During my employment at DTU i have supervised several B.Sc. and M.Sc. students as well as one PhD student.

POSITION OF TRUST AND OTHER EXPERIENCES

- Co-founder of DANISH SMART GRID RESEARCH NETWORK (DSGRN), currently holding 800+ member. The network is a non-profit organisation founded by four PhD students in January 2011. The objective of network is to coordinate smart-grid research and disseminate key findings among members. The organisation strives to arrange 2-3 network events annually at different locations in Denmark. Typically, the events are hosted and sponsored alternately by industry, public and academic institutions. Networking events takes place over a full day and typically consists of 6-7 presentations from the industry, grid utilities, academia and research projects.
- Committee member of dive club KYKLOP.

INTERESTS AND ACTIVITIES

In my spare time, I spend much time on my racing bike, driving around in North Zealand, and practice different types of water sports, e.g., diving, playing underwater rugby and sailing. Also I love travelling and cooking, and enjoying food and wine in general.