

Curriculum Vitae – Kjeld Jensen



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Employment

- 2009-2012 PhD Student, University of Southern Denmark
"Cognition based navigation of mobile entities in an outdoor environment."
- 2006-2010 Danish Red Cross IT & Telecom Emergency Response Unit
Providing humanitarian assistance in international disasters.
- 2007-2009 Research assistant, University of Southern Denmark
Project manager, development of a robotics application for a slope mower vehicle.
- 2007-2010 First Aid Instructor, Danish Red Cross
- 1996-2009 Owner of the company Cetus
Providing technological solutions to research projects and the industry. Core competences are sensor technology, embedded computing, radio communication and field robotics vehicles.
- 2006-2007 External consultant at the Danish Institute of Agricultural Sciences
Responsible for the development of a control computer and software for a field robotics vehicle.
- 2005 Research assistant at the Danish Institute of Agricultural Sciences
Agricultural field robotics vehicle software development.
- 1997-2005 Part-time job at the it-department, faculty of Humanities, University of Southern Denmark
Server administration, computer networks, database design, user support.
- 1990-1995 Computer technician at Danfoss A/S
Data transmission and industrial networks, process monitoring and control.
- 1989 CompuGame, Esbjerg
Production work at a video games company.

Education

- 2005 Master of Science, Applied Mathematics and Physics, University of Southern Denmark
Master thesis about field robotics navigation.
- 2003 Bachelor of Science, Physics, University of Southern Denmark
Thesis about solar activity, variations in the solar wind and the influence on the Earth magnetic field.
- 2001 Exchange student at the Norwegian University of Science and Technology, Trondheim
Classes in atmospheric physics, astronomy, space technology and control theory.
- 1996 Admission course at Sønderborg engineering college
Substitutes relevant high school classes for people having a technical education
- 1994 Computer technician (Datamekaniker)
5-year industrial education, competences in technical software development, embedded hardware design, data transmission and computer networks.

Publications

Jensen K., Bøgild A., Nielsen S.H., Christiansen M.P., Jørgensen R.N. 2011. FroboMind, a conceptual architecture for agricultural field robot navigation. NJF seminar 441, Automation and System Technology in Plant Production CIGR section V & NJF section VII conference, 30 June - 2 July 2011 Denmark

Nielsen S.H., Bøgild A., Jensen K., Jørgensen R.N. 2011. Implementations of FroboMind using the Robot Operating System framework. NJF seminar 441, Automation and System Technology in Plant Production CIGR section V & NJF section VII conference, 30 June - 2 July 2011 Denmark.

Christiansen M. P., Jensen K., Jørgensen R. N., Ellekilde L.-P. 2011. Localization in orchards using Extended Kalman Filter for sensor-fusion - A FroboMind component. NJF seminar 441, Automation and System Technology in Plant Production CIGR section V & NJF section VII conference, 30 June - 2 July 2011 Denmark

Aslund S., Jensen K., Jørgensen R. N. 2011. Complete coverage path planning of a random polygon - A FroboMind component. NJF seminar 441, Automation and System Technology in Plant Production CIGR section V & NJF section VII conference, 30 June - 2 July 2011 Denmark

Jensen K., Jørgensen R. N., Bøgild A., Jørgensen O. J., Nielsen S. H. and Persson R. B. 2011. Work in progress: Robotics mapping of landmine and UXO contaminated areas. 5th IARP RISE'2011, 20 June - 21 June 2011 Belgium.

Sørensen, Claus Aage Grøn ; Green, Ole ; Nørreremark, Michael ; Jørgensen, Rasmus Nyholm ; Jensen, Kjeld ; Maagaard, Jørgen ; Jensen, Lars Aalkjær. 2009. Feasibility study of a plant nursing robot performing weeding operations. Conference paper: NJF seminar: Modelling in Agriculture, Jelgava, Letland, 18. oktober 2009 - 20. oktober 2009.

Bent Hindrup Andersen ; Erik Fløjgaard Kristensen ; Helle Frank Jensen ; A Persson ; Rasmus Jørgensen ; Claus Aage Grøn Sørensen ; Kjeld Jensen ; Jørgen M Pedersen. An autonomous mobile robot for feeding outdoor pigs. NJF seminar: Trends and Perspectives in Agriculture, Copenhagen, Denmark June 2007.

Jørgensen, R.N., Sørensen, C.G., Jensen, K., Maagaard, J., Havn, I., Nørreremark, M., Jensen, L. Aa. 2007. Hortibot: Initial Results with a Plant Nursing Robot Carrying Weeding Tools - part IV. 2007 Annual International Meeting June 17-20 Minneapolis, Minnesota.

Sørensen, C.G., Jørgensen, R.N., Jensen, K., Maagaard, J., Nørreremark, M., Jensen, L. Aa. 2007. Hortibot: Feasibility study of a plant nursing robot performing weeding operations – part V. 2007 Annual International Meeting June 17-20 Minneapolis, Minnesota.

Jørgensen, R.N., Sørensen, C.G., Frank, H., Andersen, B.H., Jensen, K., Maagaard, J. 2007. FeederAnt: An autonomous mobile unit feeding outdoor pigs. 2007 Annual International Meeting June 17-20 Minneapolis, Minnesota.

R.N. Jørgensen, C.G. Sørensen, J. Maagaard, I. Havn, K. Jensen, H.T. Søgaard, and L.B. Sørensen. HortiBot: A System Design of a Robotic Tool Carrier for High-tech Plant Nursing. Manuscript ATOE 07 006. Vol. IX. July, 2007.

Jørgensen, R.N., Sørensen, C.G., Pedersen, J.M., Havn, I., Jensen, K., Søgaard, H.T., Sørensen L.B.. 2006. Hortibot: A system design of a robotic tool carrier for high-tech plant nursing. ATOE 2006 Bonn Automation Technology for Off-Road Equipment - Pre-Conference to the 2006 CIGR World Congress Bonn, Sept 3 - 7 2006 in Bonn, Germany (Sept 1 – 2, 2006).

Teaching activities

- 2010- Supervising BSc. and MSc. thesis projects within mobile robotics engineering.
- 2008- *Design and development of field robotics vehicles course*, University of Southern Denmark.
- 2010- *Hostile Environment Awareness Training*, Danish Emergency Management Agency
- 2010 Telecom ERU training course in Washington, American Red Cross
- 2008-2010 *International security training*, Danish Emergency Management Agency
- 2007-2010 First Aid Instructor, Danish Red Cross.
- 2008 Telecom ERU training course in Panama, American Red Cross

International humanitarian assistance deployments

- 2010 Team leader, Danish Red Cross IT & Telecom Emergency Response Unit
Deployed for four weeks to Haiti after the earthquake January 12, 2010.
- 2007 Team leader, Danish Red Cross IT & Telecom Emergency Response Unit
Deployed for three weeks to Uganda after the floods in the Summer 2007.
- 2007 International Red Cross (IFRC) Field Assessment & Coordination Team
Deployed for one week to Uganda after the floods in the Summer 2007.
- 2006-2007 Team leader, Danish Red Cross IT & Telecom Emergency Response Unit
Deployed for two months to the Philippines after the typhoon Reming in November 2006.
- 2006 Danish Red Cross IT & Telecom Emergency Response Unit
Deployed for five weeks to Yogyakarta, Indonesia after the earthquake May 27, 2006.

Short courses

- 2011 Stay safe & Stay safe manager e-learning courses, International Red Cross (IFRC)
- 2010 Basic security e-learning course, Ministry of Foreign Affairs of Denmark
- 2009 European Resuscitation Council instructor course in Basic Life Support/AED
- 2008 Introduction to explosives and mine action, arranged by Nordic Demining Research Forum & DANDEC
- 2008 IT & Telecom technical training, arranged by Danish Red Cross
- 2007 Security training, arranged by Danish Red Cross
- 2007 IT & Telecom technical training, arranged by Danish Red Cross
- 2007 First Aid Instructor, arranged by Danish Red Cross
- 2007 Field Team Leader Training arranged by International Red Cross (IFRC)
- 2007 Public media training course arranged by the Danish Emergency Management Agency
- 2006 Stress management, psychological support & team functioning workshop arr. by the Danish Red Cross
- 2006 IT & Telecom, Emergency Response Unit course arranged by the Danish Red Cross
- 2006 Basic Training Course arranged by the Danish Red Cross
- 2005 Sea kayaking course arranged by Fjeldgruppen
- 2005 Amateur radio course arranged by JOTA/JOTI udvalget
- 2001 University summer school at Andoya Rocket Range, Norway
- 1999 Study trip to the European Organization of Nuclear Research, CERN in Geneva
- 1995 Wild river canoing course arranged by Fjeldgruppen
- 1994 Introductory climbing course arranged by Fjeldgruppen
- 1992 Mountaineering first aid course arranged by Fjeldgruppen
- 1991 Data transmission and computer networks course at Sønderborg Business School
- 1988-1989 Civil Defense volunteer, classes in rescue operations, emergency first aid and communications
- 1987 Game license class (jagtkursus)

Honorary office/affair of associations

- 2002-2003 Project manager for the telephone network installation in 520 dormitory rooms at
H.C. Ørstedskollegiet, Odense
- 1999-2001 Vice-president of Foreningen StudieNet Danmark
A national interest group for the establishment of dormitory computer networks in Denmark.
- 1998-2000 President of Foreningen Kollegienet Odense
The association provides access to the internet from more than 2500 dormitory rooms in Odense.
- 1997-1999 Member of the working party behind the founding of Foreningen StudieNet Danmark
- 1997-1998 Member of the working party behind the founding of Foreningen Kollegienet Odense
- 1997-1998 Co-founder and member of the local area network committee at H.C. Ørstedskollegiet, Odense
The committee installed a local area network in 520 dormitory rooms using volunteer manpower.
- 1990-1996 Scout leader at the Danish Guide and Scout association
Responsible for several courses, tournaments and camps in Denmark and Europe.

Spare time activities

Running & martial arts
Photographing
Traveling
Outdoor activities

Other information

Age: 39 years

Languages: Danish (native language), English (fluent oral and writing), German (some).

Drivers license: ABCD corresponding to motorcycle, car, lorry and bus. The latter two are not for commercial purposes though.

Certificates: First Aid Instructor, Danish Red Cross, authorized by the Danish First Aid Counsel.
Amateur radio certificate, OZ1SUN, Class A (equivalent to CEPT T/R 61-01, Class 1)
Game license, Denmark (jagttegn)