Sobah Abbas Petersen

Dybdalsv. 7D, 7051 Trondheim, Norway
Tel: +47 92 84 65 95
Sobah09@gmail.com

PROFILE:

A self-motivated researcher with experience in Enterprise Modelling and Enterprise Architecture, Technology enhanced working and learning. Leveraging on my multidisciplinary experience, I am interested in using technology in innovative ways for a smarter and better society that puts the people in focus. Keen to work in a leading technology research environment. Able to work on own initiative and as part of a team. Good analytical, problem solving and communication skills.

EDUCATION:

- **Dr. Ing. (PhD) Studies** at the Dept. of Computer and Information Sciences, Norwegian University of Science & Technology, Norway. (2003.)
  Research Topic: An Agent-based Approach to Support the Formation of Virtual Enterprises (multidisciplinary research in the areas of Enterprise Modelling and Distributed Artificial Intelligence).
- **MSc** in Information Technology: Knowledge-based Systems, Dept. of Artificial Intelligence, University of Edinburgh, U.K. (1991-92). (Research project in collaboration with Loughborough University, UK).
- **BEng (Hons)** in Electronic Computer Systems, Dept. of Electrical and Electronic Engineering, University of Salford, U.K. (1985-89).

EXPERIENCE:
Research Projects

- **MyNeighbourhood**, Jan. 2013 onwards, EU project in the CIP (Innovation) program. The main focus is Human Smart Cities, co-design of services, Living Labs, Social Innovation and Gamification. My role is to contribute to the design of a social network platform for neighbourhoods, gamification; manage the evaluation of the project across four pilot cities in Europe (Aalborg, Milan, Lisbon and Birmingham).
- **MIRROR**, 2014, EU project on Reflection and Learning. My role was to contribute to developing a set of tools to support the design of systems to support reflection and learning at the workplace.
- **GALA**, European Network of Excellence in Gaming and Learning, 2011-2014, my role was to contributing to designing courses on Serious Games for European Universities.
- **LinkedDesign**, 2012-2014, EU project in the NMP program, aimed at bridging across designers, engineers and manufacturers.
- **SIMOLA**, Situated Mobile Language Learning, 2010-2011, EU project in the Lifelong Learning Program. My role was to contribute to the design of the mobile app (Lingobee), conduct a user study in Norway and coordinate user studies across 5 other European countries (Latvia, Hungary, UK, Italy, The Netherlands).
- **TARGET**, Aug. 2009 onwards, EU project on a game-based learning environment for project and innovation managers, with dynamic generation of game scenarios. My focus is on modelling and describing project management competences for the generation of stories and game scenarios for learning. I was also the operational manager for part of the time.
- **ASTRA**, 2008 onwards, EU project on Pervasive Awareness Systems and End-user development. My focus is on collaboration, communities, end-user tools and designing and conducting user studies.
- **MOTUS2,** 2005 onwards, Collaborative Mobile Learning, a Norwegian research project to investigate the potential and impact of mobile applications for supporting new forms of cooperation in the educational settings, independent of the participants' location.

- **ATHENA**, 2004 onwards, An EU Integrated Project, Advanced Technologies for Interoperability of Heterogeneous Enterprise Networks and their Application. My focus was on Business Interoperability and analysis of Interoperability Requirements from industry.
- **CAGIS**, 1997-2000, Cooperative Agents in the Global Information Space, a Norwegian research project.
- **GLOBEMAN 21,** 1997-1999, Global Manufacturing in the 21st Century, part of the Intelligent Manufacturing Systems program.
- **MNEMOS,** 1993-96, capturing and modelling cooperative memory for a project and an enterprise, EUREKA project.

Industrial Projects

- **Toyo Engineering Corporation**, Japan, 1997-99 - Modelling information flow in the enterprise.
- **Boeing**, USA, 1996-97 - Development of an enterprise model for the console architecture design.
- **Matra Marconi Space**, France, 1994-96 - Development of a model to represent the design process for the attitude and orbit control of satellites.
- **Aerospatiale**, France, 1994-96 - Development of a model to represent information and experiences that are related to the engineering design processes at Aerospatiale, for the purpose of reusing past experiences.
- **NCR**, USA, 1995-97 - Involved in several internal projects including Knowledge Management and Global Project Management.
- **Aerospatiale**, France, 1994-96 - Development of a model to represent information and experiences that are related to the engineering design processes at Aerospatiale, for the purpose of reusing past experiences.

Other Projects

- **ICT in Emergency Rooms**, Norway, 2010. My role was to ensure quality of the process models and assist in the process analysis and models (at KITH AS).
- **ELIN-S** – Electronic Information flow across healthcare institutions, Norway, 2009-2010. My focus was to capture and model processes in the health sector where two service institutions are involved, for the purposes of identifying requirements for a national electronic patient journal (at KITH AS).
- **Ministry of Communications, Science and Technology** – (Maldives)
    - Project proposal for "Telecentres", to develop distributed telecommunication and Internet service centres on remote islands, (2001).
    - Design of the National Computer Centre, development of the organisational model based on vision statements and high-level objectives, (2001).

Teaching (mainly at the Dept. of Computer and Information Sciences, Norwegian University of Science & Technology, Norway)

- **Lecturer**: Spring 2010 onwards, Enterprise Modelling and Architecture (MSc Course)
- **Responsible for Customer Driven (group) Project** – Autumn 2010 (MSc Course)
- **Lecturer**: Spring 2003, Distributed Artificial Intelligence and Intelligent Agents (MSc Course).
- **Teaching Assistant**: 1998 – 2000, Distributed Artificial Intelligence and Intelligent Agents; Performance Engineering.
- **Project Supervision**: (only the most recent and relevant ones are listed here)
    - MSc thesis: Piloting map service for navigating in punctuality analyses for trains, Spring 2014. (Co-supervised by SINTEF Technology and Society)
    - MSc thesis: Situation Awareness and Gamification for Driver Assistance on Railways, Spring 2014. (Co-supervised by SINTEF Technology and Society)
    - MSc thesis: Front-end application for hydropower on a mobile device, Spring 2014. (Co-supervised by SINTEF Energy Research)

- MSc thesis: LingoBee and Detached Learners, Spring 2014.
- MSc thesis: Implementing Game Mechanics for Crowdsourced Language Learning, Spring 2014.
- MSc thesis: The Open Platform for Design and Operation of Networked, Spring 2014. (Co-supervised by Commitment AS)
- MSc thesis: A Mobile Application for Public Art, Autumn 2013.
- MSc thesis "Contextual Vocabulary Training supported by Mobile Devices", Spring 2006, conducted in collaboration with Inspera AS, Oslo, Norway.
- Customer-driven project (BSc): "Advanced Mobile Collaborative Blogs", Spring 2006.
- MSc thesis "GOPAMAN Multi-attribute Decision Making and Negotiation", Autumn 2000.
- Final year project (BSc): "Syntactic Translation of Knowledge Bases in Virtual Enterprises", Spring 1998. This project was conducted in collaboration with some of the partners in the Globeman 21 project.
- **Guest Lecturer**: 2002 & 2013, Gjøvik University, Norway. Enterprise Architecture.

Member of PhD Adjudication committees:
- Thesis title: "Mobile Personalisation Enabled by Semantic Web Technology - Ensuring Quality in Ontology Building and Ontology Reuse", NTNU, June 2014.
- Thesis title: "Collaborative work on 3D educational content", NTNU, May 2012.
- Thesis title: "Semantic Process Mining of Enterprise Transaction Data", NTNU, June 2011.

PROFESSIONAL SERVICES
- Local Conference Chair. IFIP International Conference on Entertainment Computing ICEC 2015, Trondheim, Norway.
- Local Organisation. Serious Games Design and Application SGDA 2013, Trondheim Norway,
- Member of the International Review Board for the Journal of e-Working (Merlien).
- Member of the International Program Committees for the IADIS conferences on e-Learning, Web-based Communities (WBC), Mobile Learning, Wireless Applications and Computing (WAC), Cognition and Exploratory Learning in the Digital Age (CELDA).
- Member of the International Program Committee for 21st ACM Symposium on Applied Computing, Special Track on Handheld Computing (HHC), 2006.
- Member of the organisation committee for the 1st International conference on Enterprise Modelling, IEMC'99, Verdal, Norway, June 1999.

EMPLOYMENT HISTORY:

- **Researcher**, Aug. 2009 onwards, Sintef Technology and Society, Norway. Focus: Social Innovation, Co-design, Technology Enhanced Learning, Serious Games.
- **Adjunct Associate Professor**, Jan. 2010 onwards, Information Systems Group, Dept. of Computer & Information Sciences, Norwegian University of Science & Technology, Norway. Teaching area: Enterprise Modelling and Enterprise Architecture.
- **Senior Consultant** (Part-time), Nov. 2009 onwards, KITH AS (National Competence Centre for IT Infrastructure for Health and Social Welfare), Norway. Focus: process analysis and modelling for the health sector. Responsible for the quality of process models.
- **Postdoctoral Research Fellow**, Jan. 2005 – Dec.2008, Dept. of Computer & Information Sciences, Norwegian University of Science & Technology, Norway. Current research area: Mobile Technology in Education, Context of Mobile Collaborative Learners, Learning Communities, Pervasive Awareness Systems, End-User Development.
- **Enterprise Modelling Consultant** (Part.time), 2004 onwards, Troux Technology AS (formerly Computas Technology AS), Oslo, Norway.
- **Principal Knowledge Engineer** (2004), Computas Technology AS, Oslo, Norway.
- **Researcher**, (2003), Division of Intelligent Systems, Dept. of Computer & Information Sciences, Norwegian University of Science & Technology, Norway.

- **Visiting Researcher** (Jan-Aug 2000), Enterprise Integration Laboratory, University of Toronto, Canada.
- **Teaching Assistant & Lecturer** (1997-2003), Dept. of Computer & Information Sciences, Norwegian University of Science & Technology, Norway.
  - o Subject: Distributed Artificial Intelligence and Intelligent Agents.
- **Enterprise Modelling Consultant** (1993-97), NCR (METIS), Norway.
  - o Participated in several international industrial and research projects.
  - o Developed Enterprise Models for project and risk management, engineering design, requirements specifications, systems analysis, competency and knowledge management.
- **Public Relations Executive**, (1989-91), Maldives Telecommunications Company, Maldives.
  - o Packaging and launching of new services and products.
  - o Responsible for the production of the first international standard Telephone and Business Directory.
- **Technical Support staff** (1988), Mercury Communications, London, U.K.

ACHIEVEMENTS:

- 1 of 10 members selected from the entire company, to define Knowledge Management strategy for NCR, (1997).
- Letter of commendation from Boeing for the work done for them (1996).

RESEARCH INTERESTS

Current research interests include Human Smart Cities, technologies for learning, co-design, understanding complex business and work processes for distributed and mobile teams, better work practices and processes supported by innovative use of technology.

PUBLICATIONS

Complete list available from http://www.idi.ntnu.no/~sap/publications.html

PERSONAL DETAILS:

Date: of Birth: 5th December 1964
Marital Status: Married, 2 children
Nationality: Norwegian (of Maldivian origin)
Languages: Fluent in English, Dhivehi (Maldivian) and Norwegian. Basic knowledge of Japanese and French.
Interests: Yoga, travelling

REFEREES:

Academic: Prof. Monica Divitini,
Cooperation Technology, Dept. of Computer and Information Sciences,
Norwegian University of Science and Technology,
7491 Trondheim, Norway
Email: divitini@idi.ntnu.no

Prof. John Krogstie,
Information Systems Group, Dept. of Computer and Information Sciences,
Norwegian University of Science and Technology,
7491 Trondheim, Norway
Email: krogstie@idi.ntnu.no