

SALEH ALALIYAT

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PERSONAL DETAILS

Date of birth: September 1, 1980

Nationality: Norwegian

Marital status: Married

Place of birth: Jenin

Residence: Ålesund - Norway

OBJECTIVE

To join and work in a progressive organization and fit with its hard working team to achieve the best for the organization. To promote engineering ideas, computer talents and different research skills.

EDUCATION

- 05.2012 - now: PhD in Modeling, Simulation and Visualization, University of Bergen, Case study: simulation the fish diseases dynamics in a Norwegian aquaculture system by using agent-based approach and swarm intelligence techniques, Bergen, Norway.
- 08.2006 - 07.2008: M.Sc. in Media Technology, Gjøvik University College, Gjøvik, Norway. (Grade: Very Good).
- 08.2005 - 06.2006: Norwegian Language Course, Hedmark University College, Hamar, Norway.
- 09.1998 - 07.2003: B.Sc. in Electrical Engineering, Birzeit University, Ramallah, Palestine. (Grade: Very Good)
- 09.1997 - 08.1998: High School Certificate (Al Tawjehi - Scientific Stream), Jenin Secondary School, Jenin, Palestine. (Grade: 93%).

PROFESSIONAL EXPERIENCE

- 09.2015 - now: Work at Norwegian University of Science and Technology in Aalesund as a university lecturer, Larsgårdsvegen 2, 6009 Ålesund, Norway.

I am teaching these courses in the master of Simulation and Visualization program: Virtual worlds, Swarm intelligence and Computer graphics I. I am also teaching this course in the computer-engineering program: Information Security.

- 08.2011 – 08.2015: Work at Norwegian University of Science and Technology in Aalesund as a PhD candidate, Larsgårdsvegen 2, 6009 Ålesund, Norway.

I mainly worked as a researcher in modeling, simulation and visualization of fish disease dynamics in Norwegian fjords by using different simulation methods. Also, I worked and cooperated with other colleagues on different research projects such as: Virtual Møre, HRMS i marine økosystemer, and simulation lab project. I have taught part of intelligent system course and I was teaching and lab assistance in micro-controller course in IKT department beside working as a researcher.

- 08.2009 - 08.2011: Work at Klepp Kommune, introduction program, Olav Hålands veg 2, 4352

Kleppe, Norway.

- 03.2010 - 06.2010: Have a language-training place (språkpraksis) at Dataplan IT Partner AS, I worked as IT consultant, Stokkamyrveien 18, 4313 Sandnes, Norway.
- 12.2004 - 08.2005: Work at Badawi Information Systems as a support engineer, Ramallah, Palestine.
- 09.2004 – 12.2004: Work at MAJ college as an instructor to give courses in Microsoft office, electrical circuits and A+, Ramallah, Palestine.
- 07.2003 - 08.2004: Work at Babel Computer Center for as an electrical and computer engineer, Jenin, Palestine.
- 01.2003 - 07.2003: Has a trainee position at Al-Patra Office for Engineering, Jenin, Palestine.
- 08.2001 - 07.2003: Work at Birzeit University as volunteer. Worked as Supervisor in the computer labs. Birzeit, Palestine.

RESEARCH INTEREST

- Complex System Simulation and Visualization Methods, Stability, Control, etc.
- Virtual Worlds, 3D Environments, Virtual Reality, Computer Graphics, Computer Vision, HCI, etc.
- Artificial Intelligence, Swarm Intelligence, Optimization, Evolutionary Algorithms, etc.
- Eco-based Systems and Environmental Management.

OTHER EXPERIENCE

- 08.2007 - 07.2008: Work at International Office at NTNU i Gjøvik as a volunteer to welcome and assist in organizing activities to the international students, and participating in internationalization at home program, Gjøvik, Norway.
- 01.2001 - 07.2005: Work at Palestinian Red Crescent Society as a volunteer in their activities to create young community leaders, by giving courses in IT and leadership skills, Ramallah, Palestine.
- 09.2001 - 07.2003: Work at Electrical engineering club, Birzeit University as volunteer in assisting the first years students in labs and assignments, Birzeit, Palestine.

TRAINING

- 07.2002 - 09.2002, Training course at the Computer Center in Birzeit University, including: computer networks, operating systems, Cisco routers, LAN configurations and computer supports.
- 09.2002 – 12.2002, Training course about lighting of buildings and street lighting, for four months, Birzeit University.

ACADEMIC PROJECTS

- Agent-based modeling for environmental management, case study: virus dynamics between aquaculture sites. (PhD thesis). The objective is to build agent-based models to simulate fish disease transmission in marine aquaculture systems to combat disease spreading and get sustainable systems.
- Video - based Fall Detection in Elderly's Houses. (Master thesis). The objective is to detect the Person falling event in the elderly's houses based on video processing techniques and give an

alarm. Best Master thesis in Media Technology for 2008 at HIG.

- Programming the Palm to work as a meter reader (B.Sc. Graduation Project). In this project we created the database on the Palm (Handheld computer) to store the records (that we get it from electrical counters) for the customers.
- A Project on “Digital Filter”. We wrote a research paper on the digital filter and its types. And we design the digital filter and we simulate it.

SELECTED COURSES

PhD Degree:

- Agent-based modeling as a tool to answer complex problems
- Advanced PhD course in Swarm Intelligence
- Advanced Topics in the Management of Marine Ecosystems PhD Course

Master Degree:

- Advanced course in video processing, Coding and compression of media data, Digital image reproduction.
- Multichannel media production systems, XML, Databases in electronic publishing.
- Media knowledge, Media economy, Media laws, Workflow Management.

B.Sc. Degree:

- Power systems, power electronics, lighting, instrumentation and measurements.
- Operating systems, Computer networks and Microprocessor systems.
- Control systems and Communication systems (analog and digital).
- Digital systems and databases.

COMPUTER SKILLS

- MATLAB programming.
- Unity 3D, Blender and Google Sketchup.
- Good knowledge in C ++ programming, and C#
- NetLogo
- XML, PHP and basics in Java.
- AutoCAD and Pspice design.
- VHDL, Verilog and Assembly programming.
- CodeWarrior for Palm OS.
- Word processing and Windows, WinWord, Excel, Access and Databases.
- Operating System and Computer Network, UNIX programming.
- A+.
- PLC (programmable logic controller).

LANGUAGE SKILLS

- Arabic. (native).
- English (fluent).
- Norwegian-Bokmål (very good – trinn 3 level (B2/C1)).

INTERESTS

- Reading world literature.
- Reading articles on Internet and computers.
- Sports: football and walking.

REFERENCES

- Dr. Harald Yndestad, Department of ICT and Natural, Norwegian University of Science and Technology, tel. +47 70161280, e-mail: harald.yndestad@ntnu.no
- Dr. Siebe Bruno Van Albada, Department of ICT and Natural, Norwegian University of Science and Technology, tel. +47 70161209, e-mail: siebe.b.v.albada@ntnu.no
- Dr. Ibrahim H. Hameed, Department of ICT and Natural, Norwegian University of Science and Technology, tel. +47 70161306, e-mail: ibib@ntnu.no