

NATHEER ALMTIREEN

Engineer & Researcher

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in linkedin.com/in/natheeralmtireen ★ 13th, Sep. 1987 Amman, Jordan 2018

Current Affiliation

Assistant Professor
German Jordanian University

📅 Sep. 2022 – Ongoing 📍 Amman, Jordan



LIFE PHILOSOPHY

“ We were all created for a reason: to have a positive impact and to leave a long-lasting impression.”

EDUCATION

🎓 Ph.D. in Mechanical Engineering

Karlsruhe institute of Technology

📅 Feb. 2018 – July 2022 📍 Karlsruhe, Germany

🎓 M.Sc. in Advanced Mechanical Engineering

University of Southampton

📅 Sep. 2011 – Dec. 2012 📍 Southampton, UK

🎓 B.Sc. in Mechatronics Engineering

University of Jordan

📅 Sep. 2005 – Feb. 2010 📍 Amman, Jordan

EXPERIENCE

Researcher

Karlsruhe Institute for Technology

Institute of Microstructure Technology

📅 Feb. 2018 – July, 2022 📍 Karlsruhe, Germany

Lecturer

German Jordanian University

Main responsibilities include:

- Delivering lectures, seminars and tutorials.
- Assessing students' coursework.
- Carrying out administrative tasks related the department, such as involvement in committees and supporting students through an advisory role.

📅 Feb. 2013 – Feb. 2018 📍 Amman, Jordan

Teaching and Research assistant

German Jordanian University

Main responsibilities include:

- Instructing in the Instrumentation and Control labs; including delivering quizzes and homeworks, and practical tests.
- Prepare and write experiments with detailed procedures for the existed apparatus/Setups.
- Supervising the students during the execution of the experiments.

📅 Mar. 2010 – Sep. 2018 📍 Amman, Jordan

Avionics and A&P Engineer Intern

Royal Jordanian Airlines

Main responsibilities include:

- Servicing avionics communications equipment, ensure the installed systems are meet the requirements mandated by the manufacturer.
- Testing and calibrating the existed avionic systems.
- Carry out routine inspections to ensure preventive maintenance and run tests after performing maintenance.

📅 June 2009 – Sep. 2009 📍 Amman, Jordan

KEY SKILLS

Software Skills

MS Office L^AT_EX MATLAB[®] C++ AutoCAD[®]
SolidWorks COMSOL Multiphysics[®] ANSYS[®]
Fusion 360 LabVIEW[™]
Machine learning with Python[™]

Personal Skills

Excellent communication skills. Non-judgmental.
Ability to perform team/individual work efficiently.
Attentive to details. Well focused on results.
Excellent moral understanding. Creative
Able to work within an allotted timeframe.
Open minded Goal Oriented

Languages

Arabic

English

German



CERTIFICATIONS

☀️ Machine Learning
Stanford university online courses via Coursera[®].

- 🌟 **Python Basics for Data Science**
Course offered by IBM®.
- 🌟 **Graduate Record Exam (GRE).**
ETS®, 92% Percentile.
- 🌟 **Inter. English Language Testing Sys. (IELTS).**
British Council®, 6.5 Overall.
- 🌟 **AutoCad 2015 Professional Certificate.**
Autodesk®, Certified Instructor.

SCHOLARSHIPS & AWARDS

- 🏆 **Scholarship to complete Master of Science Degree.**
The German Jordanian University, 2011-2012.
- 🏆 **Partial scholarship to complete Doctorate Degree.**
The German Jordanian University, 2018-Ongoing.

WORKSHOPS & TRAINING

- 📌 **Grant Proposal Development- How to design and communicate your research project convincingly for funding bodies.**
RaumZeit e.k., Karlsruhe House of Young Scientists (KHYS) at KIT, Jan-Feb. 2021.
- 📌 **Training on Modeling with COMSOL Multiphysics® and Introduction to CFD Simulation**
COMSOL Multiphysics® at KIT, April. 2020.
- 📌 **Workshop on Project Management in Science & Technology**
Karlsruhe institute for Technology (KHYS), Dec. 2019.
- 📌 **Technical Excursion to ELI Beamlines Laser Facility**
Prague, Czech Republic, April. 2019.
- 📌 **Workshop on Cross-Cultural Communication**
Karlsruhe institute for Technology (KHYS), Dec. 2018.
- 📌 **Training on Fusion 360.**
German Jordanian University (Omniplan), March 2016.
- 📌 **Training on LabVIEW with sensors & actuator.**
German Jordanian University, Feb. 2015.
- 📌 **Workshop on Experimental Mechanics.**
University of Southampton, March 2012.

PUBLICATIONS

1. *Almtireen, N., Brandner, J. J., Korvink, J. G. (2020). Numerical Thermal Analysis and 2-D CFD Evaluation Model for An Ideal Cryogenic Regenerator. Micromachines, 11(4), p.361.*
2. *Almtireen, N., Brandner, J. J., Korvink, J. G. (2020). Pulse Tube Cryocooler: Phasor Analysis and One Dimensional Numerical Simulation. Journal of Low Temperature Physics, pp.1-19.*
3. *Ryalat, M., Shona, D.S., ElMoaqet, H., Almtireen, N. (2020). Dynamic IDA-PBC control for weakly-coupled electromechanical systems. Automatica, 115, p.108880.*
4. *Almtireen, N., Brandner, J. J., Korvink, J. G. (2019). Numerical Thermal Analysis for an Ideal Cryogenic Regenerator. In Proceedings of International Symposium on Thermal Effects in Gas flows In Microscale (ISTEGIM), Oct 24.*
5. *Almtireen, N., Brandner, J. J., Korvink, J. G. (2019). One-Dimensional Numerical Analysis for Gifford-McMahon Pulse Tube Cryocooler. Paper presented at the Refrigeration Science and Technology, , Part F147717, 209-214.*

6. *Almtireen, N., Elmoaqet, H., Ryalat, M. (2018). Linearized Modelling and Control for a Twin Rotor System. Automatic Control and Computer Sciences, 52(6), 539-551.*
7. *Ryalat, M., Laila, D. S., Almtireen, N., ElMoaqet, H. (2018). A Novel Dynamic IDA-PBC Controller for Electrostatic MEMS Devices. In 2018 Annual American Control Conference (ACC), pp. 2952-2957, IEEE.*
8. *ElMoaqet, H., Almuwaqat, Z., Ryalat, M., Almtireen, N. (2017). A new algorithm for short term prediction of persistent atrial fibrillation. In Applied Electrical Engineering and Computing Technologies (AEECT), 2017 IEEE Jordan Conference on (pp. 1-6). IEEE.*

INTERESTS & HOBBIES

- Social Meetings
- Family/Friends Gatherings
- Gym
- Charity & Volunteering
- Biking & Hiking
- Football
- Chess & Cards
- Gym
- Cultural Exhibitions
- Reading
- TV & Movies
- Travel & Tourism