

# Curriculum Vitae

## Mohammad Aqeel Alsaraireh

Associate Professor

Mechanical Engineering

Faculty of Engineering

Mutah University, Alkarak, Jordan

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## EDUCATION

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VICTORIA UNIVERSITY, Melbourne, Australia

*Doctor of Philosophy in Mechanical Engineering* 2012

Thesis Title: Heat Transfer and Condensation of Water Vapour from Humid Air in Compact Heat Exchangers.

VICTORIA UNIVERSITY, Melbourne, Australia

*Master of Engineering in Mechanical Engineering* 2008

MU'TAH UNIVERSITY, Alkarak, Jordan

*Bachelor of Engineering in Mechanical Engineering* 2005

## WORK HISTORY

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Associate Professor in Mechanical Engineering, Mutah University, Jordan 2018 - Present

Assistant Professor in Mechanical Engineering, Mutah University, Jordan 2013 – 2017

Head of Mechanical Engineering Department, Mutah University, Jordan 2018 - 2019

Research Assistant in Mechanical Engineering, Victoria University, Australia 2008 - 2009

## TEACHING AND RESEARCH INTERESTS

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### Courses Taught

Undergraduate level courses:

- Heat Transfer
- Thermodynamics
- Fluid Mechanics

- Computational Heat Transfer and Fluid Dynamics
- Numerical Methods
- Engineering Dynamics
- Engineering Control
- Strength of Materials
- Heating Ventilation and Air Conditioning
- Refrigeration
- Energy Conversion

Postgraduate level courses:

- Advanced Fluid Mechanics
- Thermal-Fluid sciences
- Maintenance Management

## RESEARCH INTERESTS

- Thermoelectric generator
- Thermal management in electric vehicles
- Heat transfer in heat exchangers
- Thermodynamic and Fluid Mechanics

## AWARDS

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Mutah University PhD Scholarship (2009 -2012).

First Rank in Bachelors in Mechanical Engineering, Awarded by Mutah University, Jordan, 2006.

## TECHNICAL SKILLS

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- Understanding and application of softwares like MATLAB, CFD (FLUENT) and AutoCAD
- Proficient with the use of Windows and Microsoft Office.

## PUBLICATIONS

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### Journals

- **Saraireh, M.**, "A Novel Method for Heat Exchange Evaluation in EV," *Intelligent Automation & Soft Computing*, vol. 36, no.1, pp. 57–70, 2023.
- **Saraireh, M.**, Maqableh, A. M., Jaradat, M. and Saraereh, O. A. "A Novel Method for Thermoelectric Generator Based on Neural Network," *Computers, Materials & Continua*, vol. 73, no.1, pp. 2115–2133, 2022.
- **Saraireh, Mohammad Aqeel.** "Experimental and Numerical Thermal Study of Triple Pipe Heat Exchanger." *International Journal of Simulation--Systems, Science & Technology* 19.4, 2018.

- **Saraireh, M.** Thermal Performance of Heat Conduction in a Square Plate. *International Journal of Simulation, Systems, Science and Technology*, 18, (4), pp. 14.1-14.4, 2017.
- **Saraireh, M.** Computational fluid dynamics simulation of plate fin and circular pin fin heat sinks. *Jordan Journal of Mechanical and Industrial Engineering*, 10 (2), pp. 99-104, 2016
- **Saraireh, M.** Numerical study of cross flow heat exchanger, *International Journal of Applied Engineering Research*, 11 (18), pp. 9584-9588, 2016.
- **Saraireh, M.,** Alsaraierh, F., Alrawashdeh, S. Investigation of heat transfer for staggered and in-line tubes. *International Journal of Mechanical Engineering and Technology*, 8 (11), pp. 476-483, 2017.
- **Saraireh, M.** Natural convection heat transfer from extended surfaces on vertical base. *Journal of Engineering and Applied Sciences*, Accepted for publication.
- **Saraireh, M.** Simulation of Steady-State and Dynamic Behaviour of a Plate Heat Exchanger. *Journal of Energy and Power Engineering* 10, pp.555-560, 2016.
- Li, J.-D., **Saraireh, M.** & Thorpe, G., Condensation of vapor in the presence of non-condensable gas in condensers. *International Journal of Heat and Mass Transfer*, 54, 4078-4089, 2011.

#### Conference proceedings

- **Saraireh, M.,** Thorpe, G. & Li, J.-D. Simulation of Heat and Mass Transfer Involving Vapor Condensation in the Presence of Non-Condensable Gases in Plane Channels. *ASME Conference Proceedings*, T10026-T10026-10, 2011.
- **Saraireh, M.,** Li, J. D. & Thorpe, G. R. Modelling of Heat and Mass Transfer Involving Vapor Condensation in the Presence of Non-Condensable Gases. *17th Australasian Fluid Mechanics Conference*. Auckland, New Zealand, 2010.
- **Saraireh, M.** & Tran, D. Generating frequency response functions (FRF) from time signals of accelerations, *20th Australasian Conference on the Mechanics of Structures of Materials*, Queensland, Australia, 2009.