

Date: 11-April-2025



## CURRICULUM VITAE

### PERSONAL INFORMATION

Faculty Member Name: Yousef Adel Mahmoud Altaharwah  
Academic Rank: Assistant Professor  
College: Aviation Sciences  
Department: Aircraft Maintenance  
Nationality: Jordanian  
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### ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- B.S. in Mechanical Engineering- Thermal science and Fluid mechanics program, university of Jordan/ Amman- Jordan, year 2014.
- M.Sc. in Mechanical Engineering- Renewable energy engineering, university of Lincoln/ U.K, year 2017. Project / theses title: Aircraft Cabin Thermal Management Investigated using CFD
- Ph.D. in Mechanical Engineering- Thermal science and Fluid mechanics program, National Taiwan University of Science and Technology, year 2020. Dissertation title: Flow and Dispersion Characteristics of a Forward-Inclined Stack-Issued Jet in Crossflow

### ACADEMIC EXPERIENCE

- Duration: 5 Years
- University: National University College of Technology (2020- 2022) + Amman Arab University (2022- till now)
- Academic Rank: Assistant professor
- Date the rank was granted: 2020
- The body granting the rank: Ministry of higher education
- College: Aviation Sciences
- Country: Jordan

#### NON-ACADEMIC EXPERIENCE

- Duration: 1.9 years (Jan, 2015 - Sep, 2016)
- Institution: United Food Industries Corp.Ltd.Co. (Deemah)
- Department: Production
- Country: Saudi Arabia- Riyadh

#### CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- HABC Level 2 International Award in Emergency First Aid at Work. Certificate number and Surname (FA786700, Adel) from Highfield awarding body. Riyadh, Saudi Arabia. 20 – Apr – 2016.
- HABC Level 2 Award in Fire Safety (QCF). Certificate number and Surname (FIR776489, Al Taharwah) from Highfield Awarding body. Riyadh, Saudi Arabia. 28 – Dec – 2015.

#### CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Jordanian Engineering Association
- Saudi Council of Engineers

#### HONORS AND AWARDS

- Jordan partnership for university leadership and students engagement (PULSE). 1000.0 \$.

#### SERVICE ACTIVITIES

- Academic leadership
- Participation in many seminars and training workshops

#### THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

##### Journal publications:

- **Altaharwah, Y.A.**, Huang, R.F. and Hsu, C.M., 2020. Flow and mixing characteristics of a forward-inclined stack-issued jet in crossflow. *International Journal of Heat and Fluid Flow*, 82, p.108549. <https://doi.org/10.1016/j.ijheatfluidflow.2020.108549>
- **Altaharwah, Y.A.**, Huang, R.F. and Hsu, C.M., 2020. Dispersion and upwind-side shear-layer characteristics of forward-inclined transverse jet in crossflow. *Experimental Thermal and Fluid Science*, 115, p.110104. <https://doi.org/10.1016/j.expthermflusci.2020.110104>
- Al-Salaymeh, A.S., Al-Mansi, N.N., Muslih, I.M., **Altaharwah, Y.A.** and Al Smadi, W.Y., 2023. Electrostatic cleaning effect on the performance of PV modules in Jordan. *Cleaner Engineering and Technology*, 13, p.100606. <https://doi.org/10.1016/j.clet.2023.100606>

- Ali, M., Gherissi, A. and **Altaharwah, Y.**, 2023. Experimental and simulation study on a rooftop vertical-axis wind turbine. *Open Engineering*, 13(1), p.20220465. <https://doi.org/10.1515/eng-2022-0465>
- Hussein, M.Y.A., Musa, A., **Altaharwah, Y.** and Al-Kfouf, S., 2024. Integrating machine learning in architectural engineering sustainable design: a sub-hourly approach to energy and indoor climate management in buildings. *Asian Journal of Civil Engineering*, pp.1-13. <https://doi.org/10.1007/s42107-024-01034-8>
- **Altaharwah, Y.A.** and Hsu, C.M., 2024. Flow and mixing characteristics of single-pulsed dual parallel plane jets. *Results in Engineering*, p.103741. <https://doi.org/10.1016/j.rineng.2024.103741>
- **Altaharwah, Y.A.**, Hsu, C.M. and Wang, R.H., 2025. Effect of pulsation intensity on flow and dispersion characteristics of single-pulsed dual parallel plane jets. *International Journal of Heat and Fluid Flow*, 112, p.109684. <https://doi.org/10.1016/j.ijheatfluidflow.2024.109684>
- **Altaharwah, Y.A.** and Hsu, C.M., 2025. Effect of excitation Strouhal number on flow and dispersion characteristics of single-pulsed dual parallel plane jets. *International Journal of Heat and Mass Transfer*, 240, p.126642. <https://doi.org/10.1016/j.ijheatmasstransfer.2024.126642>

### Conferences:

- **Yousef Altaharwah**, Rong Huang, and Ching Hsu. “Forward-inclined transverse jet in crossflow at low jet-to -crossflow momentum flux ratio”. 10th International mechanical engineering conference. Cebu, Philippines. 22-24 January. 2020.
- Al-Jaafreh, T.M.L., Al-Odienat, A. and **Altaharwah, Y.A.**, 2022, November. The solar energy forecasting using LSTM deep learning technique. In *2022 International conference on emerging trends in computing and engineering applications (ETCEA)* (pp. 1-6). IEEE. [10.1109/ETCEA57049.2022.10009717](https://doi.org/10.1109/ETCEA57049.2022.10009717)
- **Y. A. Altaharwah**, Hydro-Fuel, U.S.- Jordan partnership for university leadership and students engagement (PULSE), Amman, Jordan, 24-26-Jly-2022.

### INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

- Jordan Optimizing Solar Steam for Industry (JOSSI)- Germany-Dresden- (HZDR).

### RESEARCH LINK (Scopus and Google Scholar)

دائرة الموارد البشرية  
Human Resources Department

- [Yousef - Google Scholar](#)
- [Altaharwah, Y. A. - Author details - Scopus](#)

**LANGUAGES**

- Arabic (Native)
- English (excellent)
- Mandarin (intermediate)