

Date: Oct 16th, 2025



CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: **Manal Mustafa**
Academic Rank: **Assistant Professor**
College: Aviation Sciences
Department: **Aircraft Maintenance-Avionics**
Nationality: **Jordanian**
Phone No:
E-mail: m-mustafa@aau.edu.jo.

ACADEMIC QUALIFICATIONS

- **PhD.** in Mechanical Engineering and Applied mechanics, University of Nebraska-Lincoln, 2025.

Dissertation title:

Mass Effects on Energy Transfer Paths in Nonlinear Vibrating Systems

- **M.Sc.** in Mechanical Engineering, University of Jordan, Jordan, 2011.

Thesis title:

Compliant Mechanism Synthesis Using Minimum Potential Energy Method

- **B.Sc.** in Mechanical Engineering/ Mechatronics, Jordan University of Science and technology, Jordan 2004.

ACADEMIC EXPERIENCE

Assistant Professor

- Duration: - years. (2025-present)
- University: Amman Arab University.
- Academic Rank: Assistant Professor.
- Date the rank was granted: Oct. 2025.
- The body granting the rank: Amman Arab University.
- College: Aviation Sciences College.
- Country: Jordan.

- Duration: 3 years. (2019-2021)
- University: Hashemite University.
- Academic Rank: Lecturer.
- Date the rank was granted: Feb. 2019.
- The body granting the rank: Hashemite University,
- College: Engineering.
- Country: Jordan.

- Duration: 4 years. (2014-2019)
- University: Hashemite University.
- Academic Rank: Assistant Lecturer.
- Date the rank was granted: Sep. 2014.
- The body granting the rank: Hashemite University,
- College: Engineering.
- Country: Jordan.

- Duration: 4 years. (2011-2014)
- University: Hashemite University.
- Academic Rank: Full time Instructor.
- Date the rank was granted: Oct. 2011.
- The body granting the rank: Hashemite University,
- College: Engineering.
- Country: Jordan.

NON-ACADEMIC EXPERIENCE

- Industrial Coordinator.
- Duration: 1 Year (2009-2010)
 - Institution: University of Jordan.
 - Department: Industry Communication Unit.
 - Country: Jordan.

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Jordanian Engineers Association JEA (2004 -).
- ASME (2023 -).

HONORS AND AWARDS

4. **Othmer Fellowship**, University of Nebraska-Lincoln, USA, 2021-2024.
3. **Department of Mechanical & Materials Engineering Travel Grant**, University of Nebraska-Lincoln, USA, Spring 2024.
2. **College of Engineering Professional Development Fellowship**, University of Nebraska-Lincoln, USA, Spring 2024.
1. **Marie Skłodowska-Curie Actions (MSCA) Fellow**, European Commission, Seventh Framework Program (FP7), 2013

THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

2. **Manal Mustafa**, Alex Dzewaltowski, Philippe Malcolm, Keegan J. Moore, (**Accepted for Publication**) "Estimating Within-Stride Metabolic Cost from Stride-Average Data Using Autoencoders and Expander Networks," *Frontiers in Bioengineering and Biotechnology*, 13:1579085, (2025).
1. J.D. Brown, **M. Mustafa**, K.J. Moore, "Vibration Mitigation of a Model Aircraft with High-Aspect-Ratio Wings Using Two-Dimensional Nonlinear Vibration Absorbers," *International Journal of Non-linear Mechanics*, Vol. 167, (2024).

RESEARCH LINK (Scopus and Google Scholar)

- [Manal Mustafa, PhD - Google Scholar](#)
- [Mustafa, Manal - Author details - Scopus Preview](#)

LANGUAGES

- Arabic
- English.