



Name: Ali Khlefat

Rank: Junior Trainer - Aviation Engineering

Personal Information

Nationality:	Jordanian
AU Joining Date:	03 Feb 2020
E-Mail Address:	a.khlefat@au.edu.kw

Professional Information

Education:	<p>Sep 2016 to Jan 2020: M.Sc. in Mechanical engineering, Jordan University of Science and Technology, Irbid, Jordan.</p> <p>Oct 2015: Caterpillar Certified Sales Professional, Caterpillar University / Collage of Marketing, Sharja, UAE.</p> <p>Sep 2009 to Jun 2014: B.Sc. in Aeronautical engineering, Jordan University of Science and Technology, Irbid, Jordan.</p>
Specialization:	Aerodynamics, Fluid Mechanics, Heat Transfer, Computational Fluid Dynamics (CFD), Applied Mathematics.
Current Academic Position:	Junior Trainer
Current Professional Positions:	NA
Previous Administrative Position Held:	Lab engineer – Aeronautics Lab. At the Jordan University of Science and Technology, Irbid, Jordan.
Previous Academic Positions Held:	Teaching Assistant Research assistant Instructor Lab engineer
Fellowships And Honors:	Honors list during bachelor level.

<p>Teaching Experience:</p>	<ul style="list-style-type: none"> • Feb. 2020 till present: Teaching basic and intermediate level courses at the School of Aviation, Australian University, Kuwait. <ul style="list-style-type: none"> ○ Module 1 (Mathematics) ○ Module 2 (physics) ○ Module 3 (Electrical Fundamentals) ○ Module 4 (Electronic Fundamentals) ○ Module 8 (Basic Aerodynamics) ○ Module 9 (Human Factors) <p>More than two years in teaching several engineering courses as well as SAT subject test courses (M I, II & Physics).</p>
<p>Industrial Technical Experience:</p>	<p>And</p> <p>Nov-Mar 2015/16: Sales engineer at Mohamad Abdul Rahman Al Bahar LLC (Caterpillar Dealer) - Doha, Qatar.</p> <p>Aug-Oct 2014: Trainee engineer at Jordan Airline Training and Simulation (JATS), attended -as a listener- Type Rating Course entitled “Airbus A319/A320/A321 (CFM56 -5B & IAE V2500) T1/B1+T2/B2” - Amman, Jordan.</p> <p>Feb-Jun 2014: Trainee Eng. At the Aeronautics lab at the Jordan University of Science and Technology, during this period I had the chance to contribute in designing two experiments that are added to the lab manual to be taught for the students.</p> <p>May 2014: I have participated within a group of my colleagues as Exhibitors to our graduation project at the Special Operations Forces Exhibition (SOFEX 2014).</p> <p>Sep-Jun 2009/14: I have written over 150 reports in various course, from Strength of Materials to Aircraft Design, in addition to that I had a research work about Airframe of Mini Unmanned Arial Vehicles at JUST.</p>
<p>Research Interest:</p>	<p>Computational Fluid Dynamics (CFD), Fluid Mechanics, Heat Transfer, Porous Material.</p>
<p>Research Grants:</p>	<p>Design and Construction of an Airframe for (MUASV)-Graduation project-. An original design for the airframe, the project utilizes the gliding concept, in addition to utilizing the composite materials to reduce energy consumption and structural strength. The project was sponsored and funded with a \$7000 grant by KADDB.</p>
<p>Research and Publications including Journal and Books:</p>	<ul style="list-style-type: none"> • Hussam, W., Salem, H., Redha, A., Khlefat, A.M. and Al Khatib, F., 2021. Performance Evaluation of a Hybrid Solar Chimney-Photovoltaic System for Power Generation in Kuwait. Available at SSRN 3919712. • Hussam, W.K., Salem, H.J., Khanafer, K., Fadel, A.M., Khlefat, A.M. and Abdul-Razzak, H., 2021. Performance Evaluation of a Hybrid Solar Chimney-

	<p>Photovoltaic Power Plant for Electricity Generation. In ASTFE Digital Library. Begel House Inc.</p> <ul style="list-style-type: none"> • Kiwan, S.M. and Khlefat, A.M., 2021. Thermal cooling of photovoltaic panels using porous material. Case Studies in Thermal Engineering, 24, p.100837. • Hussam, W. K., Khlefat, A. M., & Sheard, G. J. (2021). Energy saving and performance analysis of air-cooled photovoltaic panels. International Journal of Energy Research. • Forced Convection Heat Transfer from Porous Rectangular Fin - An Analytical Approach (Under review).
Paper Presentations at Professional Conferences:	Performance Evaluation of a Hybrid Solar Chimney-Photovoltaic Power Plant for Electricity Generation. In ASTFE Digital Library.
University Service including committee Membership:	Active member in the Jordanian Engineers Association.
National Service:	NA
University Committees:	Vice President of the Students Union.