

Curriculum Vitae

Personal information

Full name **Ayman Mohamed Farid Sanad Ragab**

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Mailing address TIMS, P.O. Box 109, Helwan 11421, Cairo, Egypt

Nationality Egyptian

Date of birth 10 / 09 / 1982



Work experience

Dates: April 2006

Occupation or position held: **demonstrator**, Department of Mechanical Engineering

Name and address of employer: Tabbin Institute for Metallurgical Studies (TIMS), Tabbin, Helwan, Egypt

Dates: December 2011

Occupation or position held: **assistant teacher** Department of Mechanical Engineering

Name and address of employer: Tabbin Institute for Metallurgical Studies (TIMS), Tabbin, Helwan, Egypt

Dates: Sep. 2020

Occupation or position held: **assistant professor** Department of Mechanical Engineering

Name and address of employer: Tabbin Institute for Metallurgical Studies (TIMS), Tabbin, Helwan, Egypt

Education

Dates November 2005 – March 2011

Title of qualification awarded **Ph.D.** in Mechanical Engineering

Principal subjects/ skills covered Thesis Title: Study of Heat Transfer in Double Tube Heat Exchanger with Helical Coil insert Using Nanofluid.

Name and type of organisation Faculty of Engineering, Tanta university, Egypt

Dates November 2005 – March 2011

Title of qualification awarded	M.Sc in Mechanical Engineering
Principal subjects/ skills covered	Thesis Title: 'HEAT TRANSFER CHARACTERISTICS THROUGH ABRUPT EXPANSION FOR TURBULENT SWIRLING AIR FLOW WITH DIFFERENT SWIRL ANGLES'.
Name and type of organisation	Faculty of Engineering, Tanta university, <u>Egypt</u>

Dates	September 1999– May 2004
Title of qualification awarded	B.Sc in Mechanical Engineering (Grad Very Good with Honors 79%)
Name and type of organisation	Faculty of Engineering, Tanta university, <u>Egypt</u>

Training

Dates	September 2009
Principal subjects/ skills covered	Study and Calibration of Oven Sensors.
Name and type of organisation	National Institute of Standards (NIS), <u>Egypt</u>

Dates	January 2010 – April 2010
Principal subjects/ skills covered	Industrial Pollution Control Management for Middle East Countries
Name and type of organisation	Japan International Cooperation Agency (JICA) , <u>Japan</u>

Other skills: Professional trainer & Lecturer.

Work Experience:

- Industrial Experience & Consultation in Energy Conservation, industrial Furnaces, Boilers operation and maintenance and Energy management.
- *Many* Training courses as Energy Conservation and Energy Manager.
- Member team in TICO TIMS since 2015.
- Entrepreneurship club manager in TIMS since 2020.
- Member team in the project of "Designing and local manufacturing solar collector for Adsorption cooling system 20-meter cube" funded by **Science & Technology Development Fund**.
- Member team in the project of " Solar Powered Water Desalination Unit as a Commercial Modular " **funded by Academy of Scientific Research and Technology**.
- Member team in the project of " Zero electricity stand-alone house with solar powered cooling/heating and desalination system " **funded by STDF**.
- Member team in the project of " Solar assisted water desalination system employing advanced hybrid adsorption technology" **funded by STDF**.
- Member team in the project of " Eco-friendly water desalination plant for rural areas and coastal regions " **funded by Academy of Scientific Research and Technology**.

Scientific Publications

- Khalil, A. Zohir, and **A. Farid**, "EXPERIMENTAL STUDY ON HEAT TRANSFER AND FRICTION OF TURBULENT SWIRLING AIR FLOW THROUGH ABRUPT EXPANSION," *JES. Journal of Engineering Sciences*, vol. 38, pp. 717-734, 2010.
- Khalil, A. Zohir, and **A. Farid**, "Heat transfer characteristics and friction of turbulent swirling air flow through abrupt expansion," *American journal of scientific and industrial research*, vol. 1, pp. 364-374, 2010.
- Khalil, S. El-Agouz, A. Zohir, and **A. Farid**, "Performance Enhancement of Double Tube Heat Exchanger Using Coiled Fins," *Journal of Engineering Research*, vol. 3, pp. 41-49, 2019.
- Ali ES, Mohammed RH, Zohir AE, **Farid AM**, Elshaer RN, El-Ghetany HH, Askalany AA. Novel ultrasonic dynamic vapor sorption apparatus for adsorption drying, cooling and desalination applications. *Energy Reports*. 2022 Nov 1;8:8798-804.
- Alsaman, A.S., Ibrahim, E.M.M., Ahmed, M.S., Ali, E.S., **Farid, A.M.** and Askalany, A.A., 2022. Experimental investigation of sodium polyacrylate-based innovative adsorbent material for higher desalination and cooling effects. *Energy Conversion and Management*, 266, p.115818.
- Alsaman, A.S., Hassan, A.A., Ali, E.S., Mohammed, R.H., Zohir, A.E., **Farid, A.M.**, Eraqi, A.M.Z., El-Ghetany, H.H. and Askalany, A.A., 2022. Hybrid Solar-Driven Desalination/Cooling Systems: Current Situation and Future Trend. *Energies*, 15(21), p.8099.
- Alsaman, A.S., Askalany, A.A., Ibrahim, E.M.M., **Farid, A.M.**, Ali, E.S. and Ahmed, M.S., 2022. Characterization and cost analysis of a modified silica gel-based adsorption desalination application. *Journal of Cleaner Production*, 379, p.134614.
- Zohir, A.E., Ali, E.S., **Farid, A.M.**, Elshaer, R.N., Mohammed, R.H., Alsaman, A.S., El-Ghetany, H.H. and Askalany, A.A., 2022. A state-of-the-art of experimentally studied adsorption water desalination systems. *International Journal of Energy and Environmental Engineering*, pp.1-27.
- Alsaman, A.S., Ibrahim, E.M.M., Askalany, A.A., **Farid, A.M.**, Ali, E.S. and Ahmed, M.S., 2022. Composite material-based a clay for adsorption desalination and cooling applications. *Chemical Engineering Research and Design*, 188, pp.417-432.
- Alsaman, A., Salah, E., Askalany, A., **Farid, A. M.**, Zohir, A. E., Ahmed, M. S., & El-Sheikh, I. M. (2022). Operating Temperatures Effect on Adsorption Desalination System Powered by Solar Energy. *The Bulletin Tabbin Institute for Metallurgical Studies (TIMS)*, 111(1), 31-42.
- Alsaman, Ahmed, Ibrahim, Eslam, Askalany, Ahmed, Ali, Ehab, **Farid, Ayman**, & Salem, Mahmoud. (2022). Adsorption water vapor characteristics on modified silica gel for desalination application. *Sohag Journal of junior Scientific Researchers*, 2(2), 1 -11 .