

## CURRICULUM VITAE

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### 1. Education

- Ph.D. of mechanical engineering, 2014, University of Jordan, Amman, JORDAN.
- M.Sc. of mechanical engineering, 2001, University of Jordan, Amman, JORDAN.
- B.Sc. of mechanical engineering, 1991, MUTAH University, KARAK, JORDAN.

### 2. Ph.D. Dissertation

*Modeling and Simulation of a two stage adsorption chiller with heat recovery,  
University of Jordan, Amman, JORDAN.*

### 3. Employment

#### Academic Positions

- Assistant Professor, Mechanical Department, Al-Zaytoonah Jordan University,  
Amman. JORDAN.  
Sep, 2019-now.

### 4. Research Interests

Molecular flow Simulation, Characterization of Nano PV cell using synchrotron radiation, Refrigeration, District cooling and heating.



## **5. Membership in Scientific Societies and Associations**

- Jordan Engineering Association
- PMI
- NEBOSH

## **6. Honors and Awards**

CSE 40 under 40 for most talented 40 MEP engineers, USA, 2008.

## **7. Fellowships and Scholarships**

- IAEA to Switzerland 2005
- IAEA to USA 2006
- USPAS 2008
- IAEA to France 2012

## **8. Teaching Experience**

### *Undergraduate Courses*

Thermodynamics, Fluid Mechanics, Intermediate mathematical Analysis, HVAC Heat Transfer, Physics of Heat, sound and light, Internal combustion Engines, Heat transfer Lab, Strength of Material Lab, Thermodynamics Lab.

## **9. Publications**

1. Firas Makahleh, Ayman Almaaita and Ali Badran. Modeling and simulation of a two stage adsorption chiller with heat recovery, Jordan Journal for Mechanical and industrial Engineering, Accepted, 2022.
2. Firas Makahleh, Maher Shehab, Design, Modeling and performance measurement of SESAME light source storage ring vacuum system, VACUUM, 2022, under review.