

**Dr. Hani Abulkhair Assist. Professor, Mechanical Engineering Dept.,
King Abdul-Aziz University**

EDUCATION

Concordia University

PhD. Mechanical and Industrial Engineering, June 2016

-Thesis: " Experimental Investigation of the Flow Dynamics in a Model of an Abdominal Aortic Aneurysm"

-Advisor. Lyes Kadem

The University of Waterloo

MASc. Mechanical and Mechatronics Engineering, June 2011

- Thesis: "Estimation of Heat Transfer Coefficient on unglazed transpired solar collector"

- Advisor: Michael R. Collins

King Abdulaziz university, Saudi Arabia, Jeddah

B.Sc. Mechanical Engineering, , December 2005

- Specialization: Thermal Engineering

PROFESSIONAL EXPERIENCE

-Summer training, Saudi Aramco 15 June – 15 August 2004. The Training was mainly on defining Pumps parts and their failure, how to troubleshoot the problems and how to decrease the leakage and vibration.

- Lab instructor, Selected Experiments in Mechanical Engineering.

- Assistant in the Committee of the English language center in the Engineering Faculty.

- Working as an assistant in thermal storage project of that uses Ethylene glycol to freeze water around a pipe and measuring ice growth rate.

TEACHING EXPERIENCE

- Lectured tutorials about MATLAB Software.

- Teacher Assist in Thermodynamics 1 & 2 (Concordia University)

- Teaching MEP 261 (Thermodynamics), MEP 290 (Fluid Mechanics), IE 201 (Introduction to Engineering Design)

ACADMIC EXPERIENCE

August 2016 - Present: Full time Assistant Prof In King Abdul-Aziz University (Mechanical Engineering Department)

Publications

Abulkhair, H. & Collins, M. (2010). Investigations of wind heat loss from unglazed transpired solar collectors with trapezoidal corrugation", International Green Energy Conference. Waterloo, Canada

Collins, M. R., & Abulhair, H. (2014). An evaluation of heat transfer and effectiveness for unglazed transpired solar air heaters. *Solar Energy*, 99, 231-245.

Abulhair, H. & Kadem, L. (2015). Experimental investigation of hemodynamic variations inside abdominal aortic aneurysm during change of posture. CANCEM 2015. London, Canada