

ISSAH ALHAMAD



Professional Experience

March 2012-Present

Mechanical Engineering Instructor

Faculty of Engineering, UAEU, Al Ain, UAE

Teaching/Co-teaching a variety of BSc. Basic/Advanced subjects in the Thermal and Applied areas of the Mechanical Engineering undergraduate program

August 2010-March 2012

Senior Mechanical Design Engineer

Jain Consultants International, Amman, Jordan,

HVAC, Plumbing & Fire Fighting Design Engineer, Swimming Pools & Solar systems Design, LPG & Natural gas systems. Shop drawings
(All Mechanical Disciplines, Coordination & Builders work)

September 2009 – August 2010

Technical Manager

The General Company for Fire Fighting and Fire Alarm Systems, Amman, Jordan

- 1- Responsible for Projects design, Supervision, installation
- 2-Management of project time, staff, progress, cost
- 3-Responsible of projects tenders, authority approvals, problem solving

August 2007 - August 2009:

Design Engineer

Khatib & Alami Consolidated Engineering Company, Dubai, UAE, Plumbing & Fire Fighting Design Engineer, Swimming Pools & Solar Systems Design, Worked in several Major Project in UAE & Oman- Residential, Office buildings, Villas, High rise.. etc.

January 2009 - August 2009:

Part-Time Instructor

Emirates Aviation College, Aerospace and Academic Studies Dubai, United Arab Emirates, Teaching Engineering Design in Engineering Programs and Computer Labs and AutoCAD.

April 2004 - July 2007: **Instructor,**

Philadelphia University, Jerash, Jordan

CAD Instructor, Teaching AutoCAD, Mechanical Desktop, Manual Engineering Drawing, Exercises in Machine Design and other various Mechanical Engineering laboratories, responsible of student training at their senior year of study.

Education

Year Obtained

July 2007

Degree/Description

University of Jordan, Amman, Jordan

Master's degree, Mechanical Engineering

GPA: 3.17, Specialization: Thermal Power.

First student at Faculty of engineering to be exempted from thesis discussion due to publishing a scientific paper related to thesis subject in an international journal, as per University regulations.

Master Thesis: Mixed Convection Heat Transfer for a non-Newtonian fluid over a Cylinder or Sphere Embedded in Saturated Porous Media

February 2004

University of Jordan, Amman, Jordan

Bachelor's degree, Mechanical Engineering. GPA: 2.68.

Specialization: Power and thermo fluids

Graduation Project: Magneto Hydrodynamics of mixed Rayleigh flow over a Constant Temperature plate. Degree obtained in 4.5 years

Programs and Software

Program/Software	Description	Year learnt	Skill
ANSYS FLUENT	CFD modeling used for educational, research & practical applications	2012	I
EES	Specially used for Thermodynamic-related problems	2001	P
MATLAB, MATHCAD	Technical Computing language Data analysis, numerical computations	2005	P
AUTOCAD	Drafting Software	1999	P
MICROSTATION	Drafting Software	2007	P
LAB VIEW	Laboratory Virtual Instrumentation Engineering Workbench	2012	I
ELITE HVAC	HVAC load calculation software	2007	P
ELITE FIRE	Fire Fighting Hydraulic calculation software	2007	P
P: Professional, I: Intermediate, E: Elementary			

Devices and Apparatuses

Device	Description	Skill
Fluids lab devices	Examples: Wind Tunnel, Pump test rig, Flow measurement devices	P
Thermal Lab devices	Examples: Diesel Engine, Heat Exchanger, AHU Testing Device	P
Materials lab devices	Examples: MTS Machine, Beams & Buckling test devices	I
DSC, TGA	Differential Scanning Calorimetry & Thermo-Gravimetric Analysis Course attended, never practiced	E
FT-IR Spectrometer	Fourier Transform Infrared Spectroscopy. Course attended, never practiced	E
SEM	Scanning Electron Microscope. Course attended, never practiced	E
P: Professional Skills, I: Intermediate Skills, E: Elementary		

Courses Attended

Course Name	Location	Duration
Automotive Comprehensive Maintenance & Diagnosis	Albuthina Technical Center Amman-Jordan	100 hours
Matlab Course	Jordan University Amman-Jordan	30 Hours
Computer Course	Ocean Computer Center Amman, Jordan	30 Hours
Ejada Course for fresh graduates	Ammon Hotel Amman, Jordan	20 Hours
Microstation	Khatib & Alami C.E.C. Sharjah, UAE	30 Hours

Published work

- (1) I.M. Al-Hamad (1) and H. M. Duwairi (2) ; Mixed Convection Heat Transfer for non-Newtonian Fluid around a Cylinder or Sphere Embedded in Porous media *International Journal of Heat & Technology (IJHT)*, 2007
- (2) I.M. Al-Hamad (1) and H.M. Duwairi (2), Effect of Heat Generation/Absorption on Heat transfer for a non-Newtonian Fluid. *International Journal of Heat & Technology (IJHT)*, 2008

Personal Information

Birth Date: 26 August 1981

Nationality: Jordan

Residence Location: Al Ain, UAE

Marital Status: Married, 2 Kids

Languages: Arabic, English (TOFEL. ITP, Score: 577)

Courses Taught

Course Name	Institute	Semester	Role
Fluid Mechanics Lab	UAEU	Fall 2012 to Fall 2014	Sole Instructor
Mechanics of Materials lab	UAEU	Fall 2012 to Fall 2014	Sole Instructor
Thermal Lab	UAEU	Spring 2012, Spring 2013	Co-Teaching
Fluid Mechanics	UAEU	Spring 2012, 2013, 2014	Co-Teaching
Heat Transfer	UAEU	Fall 2012	Co-Teaching
Engineering Analysis	UAEU	Spring 2013, Spring 2014	Co-Teaching
Thermo fluid systems Design	UAEU	Spring 2013, spring 2014	Co-Teaching
Introduction to Mechatronics	UAEU	Spring 2013	Co-Teaching
Selected Topics in Mechatronics	UAEU	Spring 2013	Co-Teaching
System Dynamic Lab	UAEU	Fall 2012	Co-Teaching
Applied Thermodynamics	UAEU	Summer 2012, Fall 2012	Co-Teaching
Kinematics Design of Machinery	UAEU	Summer 2012	Co-Teaching
Engineering Design	Emirate Aviation College	Spring 2009	Sole Instructor
AutoCAD Drafting	Emirate Aviation College	Spring 2009	Sole Instructor
Manual Drawing/AutoCAD	Philadelphia University	Spring, Fall 2004-2007	Sole Instructor
Exercises in Machine Design	Philadelphia University	Spring, Fall 2004-2007	Sole Instructor
Mechanical Engineering Lab	Philadelphia University	Spring, Fall 2006-2007	Sole Instructor

Contribution to ME Department & UAEU

1. Proctoring & supervision on Exams
2. Full revision & improvements of Fluid Mechanics laboratory manual
3. Full revision & improvements of Mechanics of materials laboratory manual
4. Participation in Industrial Training Oral Exams
5. Editor, Mechanical Engineering Department Newsletter, 2014

Contributions to Technical Projects (Selected Projects)

Project Name	Location	Description	Task	Year
Al Bustan Development	KSA Riyadh	Hotel- 4 Stars	Plumbing & Fire Fighting Full Design	2012
Information Technology & Communications Comple (ITCC) Phase-2	KSA Riyadh	13 Buildings	On-Site Design Verifications/All systems	2011
King Abdullah Financial District (KAFFD) Parcels 5.07 & 5.08	KSA Riyadh	2-Residential towers 2-commercial towers	Plumbing, Fire Fighting, Dewatering, Full Design. On site shop drawings verification	2010
Al Hail Development	Oman Muscat	Residential villas & Townhouses	Plumbing System design	2010
Al Khaleej Cables Factory	Mafrq Jordan	Cables Factory	Fire Fighting system design and on site installations	2009
Black Rock Tower	Amman Jordan	Tower-13 Floor	Fire Fighting system design and on site installations	2009
Amlak Tower	Amman Jordan	Tower-13 Floor	Fire Fighting system design and on site installations	2009
Al Wihda City	Abu Dhabi UAE	High rise building	Swimming pools design	2009
Abu Dhabi Ramada Beach Hotel	Abu Dhabi UAE	Hotel-4*	Plumbing & Fire Fighting Full Design	2009
Admiral Bay Tower-DAMAC	Dubai UAE	Tower-60 Floor	Plumbing & Fire Fighting Full Design	2009
Gate District-Shams AD	Abu Dhabi UAE	High rise building	Tower-8, Hotel drainage design	2009
Uptown Mirdif Mosque	Dubai UAE	Mosque with basement	Plumbing System design	2008
Dubai Festival City Zone 10A	Dubai UAE	Villas, Apartments	Swimming pools design	2008
Al Ain Mall Extension	AlAin UAE	Commercial Building	Plumbing & Fire fighting system design	2008
HRH Sheikh Ahmad bin Rashid Building	Dubai UAE	Tower-13 Floor	Plumbing & Fire Fighting Full Design	2008
Times Square-Sohar City Center	Oman Sohar	Residential-Commercial development	Plumbing & Fire Fighting Full Design	2007
Liwa Suits	Abu Dhabi UAE	Tower-17 Floor	Plumbing & Fire Fighting Full Design	2007