

PERSONAL INFORMATION

Hussein Ahmad Amro



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I am a Mechanical engineer. My primary work is a lecturer in the university but the integration between the theoretical and practical skills gives the confidence needed to defence your work. Where, through my teaching experience in the field of mechanical engineering in the university I preserved the contact with the industrial sector. Such that, I am working as a consultant for the design, operation, maintenance and planning of industrial systems (control, hydraulic, pneumatic, HVAC and smart homes systems). Through my education and practical journey I earned an excellent experience in many computer engineering software like CATIA, Matlab, CAD/CAM, MEP Revit, EES, ANSYS and other design and simulation software. I am proficient in programming microcontrollers and PLC systems using Ladder, SFC, C/C++ languages. My research interests are in the field of energy control, Management, savings and auditing.

Gender Male | Date of birth 01/05/1970 | Nationality Jordanian Passport

WORK EXPERIENCE

- 2015-2017 **Teaching assistant in Mechanical engineering department**
 Eastern Mediterranean University (EMU), Cyprus

 - Teaching Building environmental systems and technology
 - Teaching MEP Revit software (designing of HVAC systems, designing of cold and hot water systems, designing of plumping systems , designing of electrical plans , reporting and calculating quantities (BOQ))

- Since 2010 **Lecturer at mechanical engineering department**

 1. Palestine Polytechnic University, P. O. Box 198, Hebron, Palestine, www.ppu.edu
 2. Teaching AutoCAD/CATIA drawing, hydraulic and pneumatic systems design, microcontrollers programming, industrial applications of Mechatronic systems, Mechatronic system interfacing and Mathematics for Engineering courses.
 3. Construction and supervision of the Industrial Hydraulic systems Lab. In the university.
 4. Construction and supervision of Industrial Mechatronic engineering systems Lab. in the university.
 5. Teaching Industrial courses like PLC, Microcontrollers, Hydraulic and pneumatic systems Energy auditing, Energy saving and Energy management..
 6. Developing of many courses curriculum and teaching plans for many courses especially the courses for the benefit of continuing education department in the university.
 7. Teaching MEP Revit software (designing of HVAC systems, designing of cold and hot water systems, designing of plumping systems , designing of electrical plans , reporting and calculating quantities (BOQ))

- 2012-2014 **Part time Instructor at the mechanical engineering department**
Birzeit University, Ramallah, Palestine, www.birzeit.edu
Teaching Mechatronic Instrumentation and Mechatronic system interfacing courses
- Since 2012 **TVET Consultant for GIZ Office in Palestinian territories**
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) , Ramallah, Palestine giz-pal@giz.de
- 1- Developing the curriculum and the workshops for Industrial Machine Maintenance and Building management systems programs for Hebron Industrial Secondary School.
 - 2- Developing the curriculum and the workshop for Elevator Maintenance program for Hebron Industrial Secondary School.
 - 3- Developing the curriculum and workshop for Industrial Control and Electronics program for Betlehem Selyzian Industrial Secondary School.
 - 4- Implementing the Learning situation teaching method approach in Palestinian territories
 - 5- Developing the curriculum and the workshop for Renewable Energy program for Hebron Industrial Secondary School
 - 6- Consulting the National Palestinian Professions Standards
 - 7- Conducting more than 400 training hours ToT and capacity building for industrial schools teachers, engineering and experts from the local industrial field) in the field of industrial machines operation maintenance and control.
- Since 2000 **Industrial Machines**
Local Market, Palestine
1. Full Installation (electrical and mechanical installation for industrial loads and machines), operation and supervision of industrial production lines.
 2. Design and maintaining electrical, mechanical, Pneumatic, and Hydraulic systems.
 3. Operating and maintaining CNC Embroidery machines.
 4. Installation, operating of computerized milking machines(Deleval)
 5. Maintaining modern control systems PLC , microcontrollers and motor speed controllers.
 - 6 Maintaining hydraulic and control systems of modern (JCB) digging machines and various types of hydraulic lifters.
 - 7 Designing of building mechanical systems using MEP Revit software
- 2000 – 2004 **Teaching and research assistant at mechanical engineering department**
Palestine Polytechnic University, P. O. Box 198, Hebron, Palestine, www.ppu.edu

2004-2005 Mechanical Engineer

AL-Basil for refrigeration Company, Hebron, Palestine

- 1- Designing and constructing of refrigerators (open type, single door, two doors, four door defrosting and no defrosting types).
- 2- Designing and installation of AC units and Isolators.
- 3- Designing using AutoCAD software for drawing and some refrigeration software for the calculation as coolpack and others.
- 4- Designing, installation and programming of modern refrigeration and air conditioning systems.
- 5- Using MEP Revit software for designing Building Mechanical systems (Plumbing, Cold and Hot water, HVAC and Firefighting)

1995-2000

Mechanical Engineer

AL-Dawlia Plastic Company, Hebron, Palestine

Supervisor for mechanical and electrical maintenance and quality controller

OTHER WORK EXPERIENCES

- 2010 – 2011 Technical Training manager at continuing education department at Palestine Polytechnic University
- Since 2010 Member of Quality Education Assurance Committee at mechanical engineering department at Palestine Polytechnic University
- 2003 – 2005 Reviewer for the educational programs accreditation in automotives field, Palestinian Ministry of Education and Higher Education
- Since 2018 Member of Association of Energy Engineers (AEE) and the supervisor of AEE student chapter in Palestine Polytechnic University
- Since 2018 Consultant for German commerce chamber (Kolon) for building capacity and conducting more than 200 training hours ToT for industrial schools teachers, engineering and experts from the local industrial field) in the field of industrial machines operation maintenance and control.

EDUCATION**2015-2019 Phd Degree in Mechanical Engineering**

Eastern Mediterranean University (EMU), Cyprus
Energy auditing saving and management

2007 – 2010 Master. Degree in Scientific Computing

Birzeit University, Palestine
Scientific computing

1990 – 1995 **Bachelor Degree in Mechanical Engineering,**
 Palestine Polytechnic University, Hebron, Palestine
 Mechanical/Automotive engineering

1990 **The General Secondary Education Certificate Examination**
 Doura Secondary School, Hebron, Palestine
 Scientific stream

TRAINING

2002 **Cisco networking**
 PPU, Palestine

2003 **(CAD/CAM) CNC Using Master Cam and CATIA software**
 Jordan.

2009 **Hydraulic and Pneumatic systems**
 Egypt

2010 **PLC Schnider programming**
 Bethlehem, Palestine

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Computer skills

- Good command of Microsoft Office tools
- Good command of MatLab/Simulink
- Good command of AutoCad and CATIA software
- Good command of Labview software
- Good command of Ansys software
- Good command of MEP Revit
- Good command of Energy plus and trnsys software
- Good command of Embedded C language programming
- Good command of modern Artificial intelligent control Algorithms (Fuzzy control, neural networks,...)

FUNDRAISING

- Projects**
- Consultant for project "Industrial Machine Maintenance TVET program"- EU/GIZ, Euro 300,000.
 - Consultant for project "Elevator Maintenance TVET program"- EU/GIZ, Euro 60,000.
 - Consultant for project "Building Management systems TVET program"- EU/GIZ, Euro 130,000
 - Consultant for project "Industrial Electronics TVET program"- EU/GIZ, Euro 130,000
 - Consultant for project "Renewable Energy TVET program"- EU/GIZ, Euro 100,000
 - Consultant for project: Treatment and recycling of electrical and electronics wastes purpose "Establishing Green Business Startups" Funded by EU through NHCCIA in partnership with CESVI. The project conducted during 2019-2020
- Publications**
- Qattoush y., Mousa M., **Amro H.**, and Sughayyer M., (2013), " Experimental investigation of hot water system based on flat-plate solar collector oriented for improving solar energy capturing and heat-transfer efficiencies", IREDeW, Jordan.
 - Zuhdi salhab, Mohammad G.Qawasmi, **Hussein Amro**, Mosa Zalloum, Mohammad Qawasmi and nafez sharawi. "Comparative Performance and Emission Properties of Spark-Ignition Outboard Engine Powered by Gasoline and LPG".Jordan Journal of Mechanical and Industrial Engineering, volume 5,Number 1, Feb.2011/ISSN 1995-6665, pages 47-52.
 - Zuhdi salhab, **Hussein Amro** "Evaluation Of Vehicular Noise Pollution In The City Of Hebron, Palestine" International Journal of Modern Engineering Research (IJMER) Vol. 2, Issue. 6, Nov.-Dec. 2012 pp-4307-4310 ISSN: 2249-6645
 - **Hussein Amro** , (2010), " Modeling and control of 3D elastic ship crane ", Master Dissertation, University of Birzeit, Palestine.
 - **Hussein Amro** , (1995), " Converting Manual Vehicle Transmission to Automatic Transmission ", Graduation Project, University of PPU, Palestine
 - Hussein A. Atikol U., (2015)," Smoothing the Residential Demand Curve by Integrating Intelligent Controller with KNX/EIB Technology: A feasibility Analysis" , scientific paper, EMU university, Dubai conference
 - **Hussein A. Atikol U.**, (2017)," ELECTRIC POWER CONSUMPTION MODEL FOR PALESTINE HOUSE STOKE" , 16th International Conference on Clean Energy (ICCE-2018)
 - **Ahmad H.**, Zaloum M., Adham, Tamer, Bilal, (2018). Biogas Filter. The Ninth Jordanian International Mechanical Engineering Conference (JIMEC 2018). Amman-Jordan, form 16-17 October.
- Presentations**
- Committee member for self-evaluation project for Automotive Engineering Program in Palestine Polytechnic University (2006-2008).
 - Designing and programming of Braille Teaching and reader Embedded device