

DR. HUSSAIN AHMAD AMIN ABABNEH
Assistant Professor of Mechanical Engineering
Zarqa University

PERSONAL

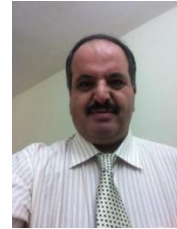
Birth: 1965 in Irbid JORDAN

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Permanent Residence: Irbid- Jordan



EDUCATION

Ph. D. Mechanical Engineering /Power and machinery from
Michigan State University, East Lansing, Michigan USA
2002.GPA = 3.5

M.Sc. Mechanical Engineering, Jordan University of Science and
Technology, Irbid-Jordan 1994, thermal power with first rank
of GPA=88.2%, excellent average.

B.Sc. Mechanical Engineering, Jordan University of Science and
Technology, Irbid-Jordan 1989, thermal power with first rank
of GPA=85.5%, excellent average.

TESTS

Fundamentals of Engineering Examination with converted score of 84%, 2001.

ACADEMIC RECORD

- Faculty at Electromechanical Engineering Department- Abu Dhabi Institute of Applied Technology November 2014-2016
- Assistant professor- Mechanical Engineering Department- JUST 2002-August 2012.
- Research associate - Biosystems Engineering Department- Michigan State University 1997-2002.
- Lab. Engineer Biosystems Engineering Department- JUST 1994-1996.

TEACHING EXPERIENCE (12 YEARS)

INDUSTRIAL EXPERIENCE (2 YEARS)

1. 'ZAQA UNIVERSITY

Teaching mechanical engineering courses in the department of electromechanical engineering such as:

- A. Engineering fluid mechanics
- B. Power plants engineering
- C. Applied engineering mathematics
- D. Materials Science and engineering

2. ABU DHABI INSTITUTE OF APPLIED TECHNOLOGY (2014-2016)

Teaching mechanical engineering courses in the department of electromechanical engineering and technology such as:

1. thermodynamics
2. engineering mechanics-dynamics
3. engineering mechanics

4. mechanical design
5. machine elements
6. personal development planning
7. mechanical vibration and noise control
8. advanced engineering mathematics
9. heating ventilation and air conditioning
10. power plant systems
11. internal combustion engines

3. TECHNICAL TRAINING IN SAUDI ARABIA

Senior Learning and Development Manager Maarefah Training Company KSA
(2012-2014)

Trainer at training centers in the eastern area in KSA, mainly training courses for Sabic and Aramco employee in the following of the courses:

1. pumps types and operation
2. machine vibration analysis
3. advanced on valves technology
4. preventive maintenance
5. Basic heat transfer and exchangers
6. Mechanical fault analysis and troubleshooting
7. preventive and predictive maintenance
8. Basics of Instrumentation and Control System
9. confined space entry
10. Systematic Preventive and Predictive Maintenance
11. Pumps and compressors
12. AutoCAD level 1
13. AutoCAD level 2
14. Microscopy of carbon steel
15. Practical Energy Efficiency, Design, Engineering and Auditing
16. Falling Protection
17. Motors Testing

18. Lockout tagout
19. ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories
20. Root Cause Analysis
21. Safe work permit systems
22. Risk Assessment
23. Rotating Equipment Preventive Maintenance & Troubleshooting
24. Behavior Base Performance
25. Motivation towards Teamwork
26. Instrumentation
27. Chemical materials handling and hazards
28. Pumps & Compressors Operations, Trouble Shooting & Maintenance
29. master task list
30. chemical material balance
31. Safe Loading & Unloading
32. root cause analysis
33. crisis management
34. transformers
35. fans filters steam traps
36. project management
37. Technical report writing
38. pipes and auxiliaries
39. Operating Plant Work Process
40. Valves technology
41. Fire fighting
42. safety relief valve
43. process fired heater
44. integrated program in operation and maintenance TPM
45. Process Safety Management of Highly Hazardous & Explosive Chemicals
46. *Skills of storekeepers and warehouse inventory Management .*
47. Laser, Machinery Alignment & Dynamic Balancing Techniques.
48. Building Operational Excellence in the Processing Industry.

49. Advanced Operation Skills
50. Process Expert knowledge of all the principles and Techniques of Process Troubleshooting.
51. Plant Process Maintenance and troubleshooting
52. Effective Maintenance planning and scheduling.
53. Boiler operation
54. Distillation troubleshooting - advanced
55. Mechanical troubleshooting .pumps, compressors and steam turbines.
56. Plant Maintenance & Troubleshooting Techniques.
57. effective maintenance planning and scheduling.
58. Industrial Safety Engineering.
59. Principles and Practice of Risk Assessment.
60. Forklift operation and safety.
61. Coupling and shaft misalignment.
62. Technical report writing and communication skills.
63. Problem Solving & Decision Making.
64. Technical Report Writing.
65. Creative Problem Solving and Decision Making.
66. Plant maintenance and troubleshooting.
67. Electrical Load Forecasting, Characteristics & System Upgrade.
68. Heat transfer and heat exchanger operation and maintenance.
69. Decision Making in Crisis & Emergency Situations

4. JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY(2002-2012)

- Dynamics , Statics, Theory of machines, Fluid mechanics, Strength of Materials, Thermodynamics, Heat Transfer, Air conditioning systems HVAC, and Internal Combustion Engines / Mechanical Engineering Department at JUST Department 2002-2012.

- Participation in Faculty for Factory consultation program to resolve technical problems on the industry.

5. LABORATORY EXPERIENCE AT JUST

1. Power and agricultural machinery
2. Physical properties of biomaterial
3. Thermal Power and fuel properties Lab.
4. Internal combustion engines
5. Instrumentation and dynamic systems Lab,
6. Strength of material Lab
7. Thermo-heat lab
8. Fluid mechanics and hydraulic machines lab/

RESEARCH EXPERIENCE

Rheological study of white cheese.

Development of Lab for Testing Physical Properties of Biomaterials.

Viscosity analysis if non-Newtonian materials

Development of a Mechanical Probe for Nondestructive Apple Firmness Evaluation MSU.

PRINCIPLE PUBLICATIONS

- **Ababneh, Hussain** Agricultural Engineering 2000 ASAE Annual International Meeting Milwaukee: *Development of Mechanical Probe for Nondestructive Apple Firmness Evaluation*
- Mohamad Al-Widyan, Majdi Al-Mahasneh, Hussain Ababneh, 2008. *HEAT RECOVERY OPPORTUNITIES FROM A GRAIN DUST COMPOSTING PILE* J. solid waste technology and management, vol. 34, pp140-148.
- Majdi Al-Mahasneh, Mohamad Al-Widyan, Hussein Ababneh, Taha Rababah and Khalil Ereifej 2008. Grain Dust as an Energy and Food Resource vol. 17(1), pp. 13-20.
- *Mahasneh, Majdi A.; Ababneh, Hussein A.; Rababah, Taha*, 2008 Some engineering and thermal properties of black cumin (*Nigella sativa* L.) seedsInternational Journal of Food Science & Technology,**Vol.: 43 (6), pp 1047 – 1052.**
- Hussain A. A. Ababneh, Renfu Lu, Ajit K. Srivastava, 2006. Finite element analysis and experimental evaluation of bioyield probes for measuring apple fruit firmness. Transactions of the ASABE. Vol. 49(1): 123-131
- Shaker, R. R. , Attlee A, Kasi H., Osaili T. M, Al Nabulsi A. and. Ababneh H. A. Comparison of the quality of low moisture mozzarella cheese made from bovine, ovine and caprine milks *Journal of Food, Agriculture & Environment* Vol.10 (2): 89-93. 2012

HONORS AND AWARDS

- Graduate school fellowship 2001, Michigan State University

University and college honor list for many semesters in Jordan University of Science and Technology

REFERENCES

1. *Mohamad Al-Widyan Mechanical Engineering-Faculty member Jordan University of Science and Technology* Phone: (+962)2-7201000 Ext: 22561 Email: widyan@just.edu.jo
2. *Nidal H. Abu-Hamdeh Mechanical Engineering-Faculty member Jordan University of Science and Technology* Phone: (+962)2-7201000 Ext: 22330 Email: nidal@just.edu.jo
3. *Dr. Shaaban Ali Faculty Ph.D, 2008, Aerospace Engineering Abu Dhabi Institute of applied Technology Electromechanical Engineering Technology* Phone: 00971528591349 Email: shaaban.ali@adpoly.ac.ae