

Curriculum Vitae

For

Mohamed Othman Ibrahim Othman

Assistant Professor in Mechanical Engineering and Industrial
Engineering Department,
College of Engineering,
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on sabbatical leave from Helwan University,
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Education:

2015 Ph.D.	Mechanical Design [Materials]	Helwan University, Egypt
2008 M.Sc.	Mechanical Design [Materials]	Helwan University, Egypt
2002 B.Sc.	Mechanical Engineering [Power]	Helwan University, Egypt

Key Qualification:

Fundamentals of Engineering Drawing & System Dynamics & Machine Dynamics & Engineering Mechanics (Statics) & Engineering Mechanics (Dynamics) & Mechanics of Materials & Automatic Control & Thermodynamics II & Operation Research & Mechanical Vibration & Machine Element Design & Mechanical Design II

Work Experience:

<u>2011-2017</u>	<u>Ass. Lecturer</u>	<u>Majmaah Univ.</u>
Taught: Several Courses including: Machine Element Design, Mechanical Drawing, AutoCAD, Mechanical Vibration, Theory of Machine, Integral Calculus, Differential Calculus, Fundamentals of Engineering Technology, Mechanics of Materials, Operation Research, Thermodynamics II, Mechanical Measurement and Mechanical Design.		
<u>2008-2011</u>	<u>Ass. Lecturer</u>	<u>Helwan Univ.</u>
Taught: Several Courses including: Stress Analysis, Mechanical Drawing, AutoCAD, Mechanical Vibration, Theory of Machine.		

2004-2008

Demonstrator

Helwan Univ.

Taught Several Courses including: Mechanical Design, Machine Element Design, Strength of Materials, Stress Analysis, Mechanical Drawing, AutoCAD and Mechanical Vibration

Computer Expertise:

Software: Spreadsheets (EXCEL), [ANSYS] Finite Element Program (CFD), Mat LAB Microsoft word, AutoCAD and Solid works.

References:

- 1- **Prof. Y. M. Shabana**, Mechanical Design Dept., Helwan University in Mataria Cairo, EGYPT Tel 2-(02) 01155603536.
- 2- **Prof. R. M. Gadelrab**, Mechanical Design Dept., Helwan University in Mataria Cairo, EGYPT Tel 2-(02) 01005184534.
- 3- **Associate Prof. K. Zied**, Mechanical Design Dept., Helwan University in Mataria Cairo, EGYPT Tel 2-(0966) 0566031224.

Patent:

1. **Registration for Patent No. 1 from:**

King Abdul-Aziz City for Science and Technology

Registration No. : 116370492

Date: (26-6-1437H) (4-4-2016)

Invention Name: "Creep Testing Machine for Ring Specimens using in Natural Gas Piping Systems"

2. **Registration for Patent No. 2 from:**

King Abdul-Aziz City for Science and Technology

Registration No. : 117380278

Date: (26-6-1437H) (04-04-2016)

Invention Name: "Creep Testing Machine for Muti Ring Specimens using in Natural Gas Piping Systems"

3. **Registration for Patent No. 3 from:**

King Abdul-Aziz City for Science and Technology

Registration No. : 117380287

Date: (16-4-1438H) (14-01-2017)

Invention Name: " Pre-Cracking Machine for Polymeric Ring specimens"

4. **Registration for Patent No. 4 from:**

King Abdul-Aziz City for Science and Technology

Registration No. : 117380624

Date: (25-7-1438H) (22-04-2017)

Invention Name: "Smart Convenient Tracks in Trains for Special Needs"

5. Registration for Patent No. 5 from:

King Abdul-Aziz City for Science and Technology

Registration No. : 117380625

Date: (26-7-1438H) (23-04-2017)

Invention Name: "Smart Waiting Cabins for Pilgrims using Renewable Energies"

Publications:

1. Conference:

1. **M. Osman**, R. M. Gadelrab, E. M. Rabeih, and Y. M. Shabana, "Dynamic Behavior of a Driveline Shaft Made of Composite Material" Asian Conference on Mechanics of Functional Materials and Structures Matsue, Shimane, Japan, Nov. 2008.
2. **M. Othman**, K. Zied and T. Elmahdy. "Improving the In-plane Stiffness of the Hexagonal Re-entrant Auxetic Honeycomb Cores" 16 th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY, Military Technical College, Kobry Elkobbah, Cairo, Egypt, May. 2015.

2. Journals:

1. **M. Osman**, Tawfeeq A. Alkanhal and S. A. Ahmed, "Investigation into Tubular Structure Formed by Pitting Corrosion on the Surface of Carbon Steel" **Journal of Engineering Sciences, Assiut University**, March, 2013, Vol. 41, pp. 483-500.
2. **M. Osman and S. A. Ahmed**. "Investigation into Cavitation Damage Progress in the Incubation Period using Stepwise Erosion and Image Process Techniques" **Journal of Engineering Sciences, Assiut University**, May, 2014, Vol. 42, pp. 683-702.
3. **Mohamed Osman**, Khaled Zied and Tarek Elmahdy. "Enhancement of the in-plane stiffness of the hexagonal re-entrant auxetic honeycomb cores" **Physica Status Solidi**, July 2015.

Under Publication:

1. M. Almutairi, N. Almutairi, S. Alsubaiei, A. Aldukhaiyel, A. Alghanim, H. Almutairi, **M. Othman**, I. Tlili., "Thermal behavior of auxetic honeycomb structure: An experimental and modelling investigation" International Journal of thermal sciences, Elsevier.

Dissertations:

- 1- Dynamic Behavior of a Driveline Shaft Made of Composite Material, **M. Sc.** Thesis, Helwan Univ., **Egypt**, August 2008.
- 2- Vibrational and Acoustical Characteristics of Novel Auxetic Honeycomb Structures, PhD. Thesis, Helwan Univ., **Egypt**, December 2015.

Students Projects:

1. Project 2017 Majmaah University “Experimental Study and Modeling of Thermal Characteristics for Honeycomb Sandwich Pane” Mechanical and Industrial Engineering Department, Faculty of Engineering, Majmaah University, 2017, Majmaah-Saudi Arabia.

Research projects funded locally or internationally:

Research title	Year of Funding	The funding agency
Investigation into Tubular Structure Formed by Pitting Corrosion on the Surface of Carbon Steel	1433-1434 H	Deanship of Scientific Research, Majmaah University
Investigation into Cavitation Damage Progress in the Incubation Period using Stepwise Erosion and Image Process Techniques	1434-1435 H	Deanship of Scientific Research, Majmaah University

Participation of the member in the committees

No.	Committee Name	Committee Mission	Committee work Period
1	Quality Unit	Member of the quality unit in mechanical and industrial engineering department	2011, Academic year (1432-1434H)
2	Formation of the Graduates Affairs unit	Member	1435-1438H
3	The Program and study plans unit	Member	1433-1438H
4	Documentation and Archiving Committee	Member	1436-1438H
5	Engineering Practice Committee	Member	1436-1437H
6	Senior Design	Member	1436-1437H
7	Community Services	Member	1436-1437H
8	study schedules and examinations unit	Member	1433-1438H

Training Courses

No.	Name of Course	Place Taken	Date Taken
1	Strategic plan and academic Administration	Cairo, Egypt (Helwan University)	12-13, July, 2016
2	Local and global Competitive Research Projects	Cairo, Egypt (Helwan University)	17-18, July, 2016
3	Examination Systems and Evaluation of Students	Cairo, Egypt (Helwan University)	19-20, July, 2016
4	The Foundations of the Building and Development of Academic Course	Cairo, Egypt (Helwan University)	24-25, July, 2016
5	Quality Standards in the Teaching Process	Cairo, Egypt (Helwan University)	26-27, July, 2016
6	Feasibility Study of Research Projects	Cairo, Egypt (Helwan University)	31-1/8 /2/2006
7	Skills of Scientific Research	Majmaah University	27-5-1437H