

CURRICULUM VITA

Mostafa Abdelmohimen Hussein, Ph.D
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Mechanical Engineering Department
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EDUCATION:

- Ph.D. Mechanical Power Engineering, Department of Mechanical Engineering, Shoubra Faculty of Engineering, Benha University, Egypt, 2010.
- M.Sc. Mechanical Power Engineering, Department of Mechanical Engineering, Shoubra Faculty of Engineering, Benha University, Egypt, 2006.
- B.Sc. Mechanical Power Engineering, Department of Mechanical Engineering, Shoubra Faculty of Engineering, Benha University, Egypt, 2000.

AREAS OF EXPERTISE:

1. Fluid Mechanics.
2. Hydraulic Machines.
3. Heat transfer.
4. Thermodynamics.
5. Computational Fluid Dynamics (CFD).
6. Measurements.

PERMANENT JOB: Lecturer, Mechanical Engineering Department, Shoubra Faculty of Engineering, **Benha University, Egypt.**
Head of Alumni Unit, Shoubra Faculty of Engineering.

CURRENT JOB: *Assistant Professor*, Mechanical Engineering Department, College of Engineering, **King Khalid University, Saudi Arabia**

WORK EXPERIENCE:

Oct. 2010 – present *Lecturer*, Mechanical Engineering Department, Shoubra Faculty of Engineering, Benha University, Egypt.
Head of Alumni Unit, Shoubra Faculty of Engineering.
Giving Training courses in **INTERLINK training & consultation**, Egypt

Jan. 2006 – Assistant Lecturer & Researcher, Mechanical Engineering Department,
 Oct. 2010 Shoubra Faculty of Engineering, Benha University, Egypt.

July 2002 – Demonstrator, Mechanical Engineering Department,
 Jan. 2006 Shoubra Faculty of Engineering, Benha University, Egypt.

April 2002 – Housing & Building Research Center, Ministry of Housing, Utilities &
 July 2002 Urban Communities, Egypt.

Dec. 2001 – Cars maintenance engineer in Ministry of Housing, Utilities & Urban
 April 2002 Communities, Egypt.

Oct. 2000 – Egypt Military Force, (Military Service) Engine Department (test and
 Nov. 2001 repair of diesel engines injection pumps).

TEACHING ACTIVITIES:

University of Benha, Mechanical Engineering Departments Courses:

1. Fluid Mechanics,
2. Thermo Dynamics,
3. Heat Transfer,
4. Gas Dynamics,
5. Hydraulic Machine,
6. Measurements,
7. Fluid Power, and
8. Power stations.

SKILLS:

Computer

- Excellent user of Microsoft Office (Word, Excel & PowerPoint).
- Excellent user of Internet applications for research
- Excellent user of Buildings simulation programs (Doe-2 and Visual Doe)
- Excellent user of Fluid and Heat transfer simulation programs (CFD programs, Fluent).
- Excellent user of Computer language (Basic and C)
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Language

- Fluent in spoken and written Arabic (native).
- Excellent in spoken and written English.

PUBLICATIONS:

A. Journal Papers

- Mostafa A. Hussein, George B. Hanna, Moncef Kararti, "*Analysis of Day lighting Benefits for Office Building in Egypt*" Journal of Solar Energy Eng. August 2005 Volume 127, Issue 3, 366-371.
- Mostafa A. Hussein, Tarek. A. Mekhail, Samir S. Ayad, and Karam M. El-Shazly "*An Investigation of the Effect of Anti-Vortex Film Cooling On a Flat Plate*" Engineering and Scintific Research Journal (ESRJ), Faculty of Engineering - Benha University, ISSN 1687 - 1340, Volume No.(12) No.(1), pp 34 - 51, 2010.
- Mostafa Abdelmohimen, Maher G. Higazy, "*LES of Turbulent Mixing In Anti-Vortex Film Cooling Flows*" Int. J. of Multidisciplinary and Current research, Nov/Dec 2013,146-152.
- Mostafa Abdelmohimen, "*Numerical Investigation of Film Cooling from Two Rows of Holeswith Anti-Vortex HolesAttached to the Upstream Row*" International Journal of Engineering and Technology Innovation, , 2015, In Press

B. Referred Conference Papers:

- Mostafa A. Hussein, George B. Hanna, Moncef Kararti, "*Analysis of Day lighting Benefits for Office Building in Egypt*" SOLAR 2004 CONFERENCE July 11-14, 2004 Portland Oregon USA.
- George B. Hanna, Nabile M. Guirguis, Hend S. Osman, Mostafa A. Hussein, "*Energy Analysis for New Residential Buildings in Egypt*" International Conference: Future Vision and Challenges for Urban Development, Cairo, Egypt: 20-22 December 2004.
- Karam M. El-Shazly, Alaa-Eldin Zohir Ali, Ali A. Abdel-Aziz, Mostafa A. Husein, "*Heat Transfer Characteristics of pulsated Flow Downstream of Abrupt Expansion Through Pipes*" 2nd International Conference on Advances in Engineering Sciences & Technology, NRC, Egypt, Nov. 12-14, 2005.
- Mostafa Abdel-Mohimen, Tarek Mikhael, Samir S. Ayad, and Karam M. El-Shazly, "*An Investigation of the Effect of Anti-Vortex Film Cooling on Flat Plate*" Tenth International Congress of Fluid Dynamics (ICFD 10), 16-19 December, 2010, Ain Soukhna, Red Sea, Egypt.
- M. A. H. Abdel-Mohimen, T. A. Meakhail, S. S. Ayad, and K. M. El-Shazly, "*Effect of Pressure Gradient on Film Cooling from Holes Supplemented by Anti-Vortex Holes*" 15th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY, May 28 - 30, 2013, Military Technical College, Cairo, EGYPT.

C. Theses:

- Ms.c "*An Experimental Investigation of Heat Transfer to Turbulent Pulsating Flow Downstream Sudden Pipe Expansion*", 2006, Mechanical Power Engineering, Shoubra Faculty of Engineering, Benha University, Cairo, Egypt.

- Ph.D “*Study of the Film Cooling due to Jet in Cross Flow*”, 2010, Mechanical Power Engineering, Shoubra Faculty of Engineering, Benha University, Cairo, Egypt.

WORKSHOPS AND CONFERENCES ATTENDED

- Study Tour from 18th April to 2nd May 2004 in Chemnitz / Germany organized by iproplan® Planungsgesellschaft mbH in cooperation of UNDP Egypt and UN DESA.
"Energy Saving in Residential and Commercial Building in Germany"
- Deliver a lecture in study Tour for Energy Simulation (VDOE3.1) to Palestinian Group from 28 Feb to 3 March 2004 under supervision of HBRC in cooperation of UNDP.
- Professional Fellows program, 10th October 2011 to 10th November 2011 in USA. Organized by UNIVERSITY OF MICHIGAN-DEARBORN. Sponsored by United States Department of States.
"Engineering Pathways from Education to Employment Program"