

CURRICULUM VITAE

Surname Nawar
Name Mohamed A. El-Monem A. El-Aziz Nawar
Date of Birth 16-10-1974. Cairo, Egypt.
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Education

Ph.D. Mechanical Power Engineering, December, 2010.

Title of thesis: **New Valve with Variable Inherent Performance for Different System Characteristics.**

Faculty of Engineering, Mattaria, Helwan University.

M.Sc. Mechanical Power Engineering, July, 2004.

Title of thesis: **Interaction between Circular Wall Jets Issuing from Cylindrical Surfaces.**

Faculty of Engineering, Mattaria, Helwan University.

B.Sc. Mechanical Power Engineering, May, 1997.

Grade: Very Good with honor rank.

Faculty of Engineering, Mattaria, Helwan University.

Occupation

From: 10-5-2011 till now

Position: Assistant Professor

Place: Mechanical power Eng. Dpt. Faculty of Eng. Mattaria, Helwan University.

Teaching undergraduate & postgraduate courses.

From: 1-10-2011 till now

Position: General Manager of *Energy Management Center*

Place: (1) Plot No. (1), El-khamseeny St., (Carrefour - Vodafone) road, Zahraa El-Maadi, Maadi, Cairo, Egypt.

E-mail: dr_nawar@energymanag.com

Web Site: www.energymanag.com

From: 9-4-2012 till now

Position: Director of production workshops.

Place: Faculty of Eng. Mataria, Helwan University. Masaken El-Helmia, P.O. 11718. Mataria- Cairo, Egypt.

From: 25-2-2014 till now

Position : Deputy Executive Director

Project name:

“Center of Excellency for the Technology of production and testing Bio-fuels”.

Project code: **CEP1 – 039 – HEL**

The Project supported by the Ministry of Higher Education and Helwan University.

Scope of the project: Scientific research, Educational, Community service, and Environmental Development.

From: 24-8-2004 to 9-5-2011

Position: Assistant lecturer

Place: Mechanical power Eng. Dpt. Faculty of Eng. Mataria, Helwan University. Teaching undergraduate courses and working in Ph.D. research.

From: 2-3-1999 to 23-8-2004

Position: Demonstrator

Place: Mechanical power Eng. Dpt. Faculty of Eng. Mataria, Helwan University. Teaching undergraduate courses and working in M.Sc research.

From 14-1-1998 to 1-3-1999

Position: Military service

From 2-12-1997 to 13-1-1998

Position: Demonstrator

Place: Mechanical power Eng. Dpt. Faculty of Eng. Mataria, Helwan University. Teaching undergraduate courses.

Courses taken with M.Sc. plan of study:

First year, 2000

1- Thermodynamics
2- Fluid Mechanics
3- Seminar presentation
4- Heat Transfer
5- Numerical Analysis
Accumulated grade Good

Second year, 2001

1- Modelling
2- Advanced Turbomachines
Accumulated grade Good

Courses taken with Ph.D. plan of study:

First year, 2004

1- Turbulence Modelling
Accumulated grade Very Good

Second year, 2005

1- Introduction to CFD
2- Advanced Aerodynamics
Accumulated grade Good

Trainings

Training course in **“SHOUBRA EL-KHEMA POWER STATION,”** The ministry of electricity, Egyptian Electricity Authority, Cairo region, Egypt. 1995.

Training course in **“Pro/Engineer,”** From INTEGRA, Engineering software and services, Egypt, 1997.

Training course in **“ Laser Diagnostics of Combustion Processes,”** From **“INTERNATIONAL CENTRE FOR SCIENCE AND HIGH TECHNOLOGY”** Cairo University, Egypt, 2000.

Training course in **“automatic control by contactors,”** from SALESIAN INSTITUTE **“DON BOSCO”**. Multipurpose Vocational Courses. Sahel-Rod El-Farag. Cairo, Egypt, 2002.

Training course in **“Conference organization,”** from **“Competency Development and Ongoing Training Centre”**. Helwan University. Helwan, Egypt, 2010.

Training course in **“Effective Presentation,”** from **“Competency Development and Ongoing Training Centre”**. Helwan University. Helwan, Egypt, 2010.

Training course in “**International Publishing of Research,**” from “Competency Development and Ongoing Training Centre”. Helwan University. Helwan, Egypt, 2010.

Training course in “**Quality Standards in Teaching,**” from “Competency Development and Ongoing Training Centre”. Helwan University. Helwan, Egypt, 2010.

Training course in “**Use of Technology in Teaching,**” from “Competency Development and Ongoing Training Centre”. Helwan University. Helwan, Egypt, 2010.

Training course in “**Strategic Planning,**” from “Competency Development and Ongoing Training Centre”. Helwan University. Helwan, Egypt, 2010.

Research skills:

Very good experience in experimental work and test-rig configuration. Otherwise, the ability of the measurement with hot wire anemometer, Phase doppler particle analyzer (PDPA) and particle image velocimetry (PIV), configuring their hardware setup as well.

participating a multinational funded project (**FP7-ENERGY.2010.2.9-1 INCO-ENERGY CALL PART 2**). The project title is Multipurpose Applications by Thermodynamic Solar (MATS). Grant agreement no: 268219.

This project is in the area of energy optimization, renewable energy and solar desalination projects.

Teaching Experience

HELWAN UNIVERSITY. FACULTY OF ENGINEERING AT MATARIA. (full time).

Numbers between parentheses refer to number of terms

- 1- Thermodynamics (8)
- 2- Refrigeration and Air Conditioning (5)
- 3- Heat transfer (7)
- 4- Hydraulic Machines (12)
- 5- Turbomachines (12)
- 6- Power Stations (12)

ARAB ACADEMY FOR SCIENCE AND TECHNOLOGY AND MARITIME TRANSPORT. COLLEGE OF ENGINEERING AND TECHNOLOGY (part time).

- 1- Autodesk inventor (1)

Industry Courses

- 1- Pump Selection, installation and maintenance.
- 2- Gas turbine principles and types.

- 3- Gas compressor principles and types.
- 4- Energy management.
- 5- Boilers and steam lines
- 6- Valves selection, operation, and maintenance
- 7- Autodesk Inventor.

Consultation experience:

Experience in the design and manufacturing of Machine dies, including forging, injection, drawing, and cutting dies, with the aid of **(Pro/Engineer CAD/CAM system)** at:

- 1- “EL-NEGMA,” Factory for metal work and mortise manufacturing, 2nd industrial zone, part 120, 6th of October city, Egypt(1997 - 2002)
- 2- “OCTOBER for metal Industry”, 3rd industrial zone, part 235, 6th of October, Egypt (2002-2004).

Design, construction and maintenance of automatic power control circuits. In addition, design, manufacturing and improvement of burners, ovens, and furnaces. A good experience in the design of pipeline systems, including pump station and water hummer analysis.

- 3- A third party of **ALSTOM AWS (Alstom Water Systems)**, (2012).
- 4- A third party of **ALSTOM Egypt for Power & transport Projects**, (2013)

SELECTED PROJECTS

| NO | Project | Scope of work | Year |
|----|---|--|------|
| 1 | EL-NEGMA Factory for metal work, 2nd industrial zone, part 120, 6th of October city, Egypt | Design and construction of closed powder coating system with a complete environmental consideration. | 2000 |
| 2 | OCTOBER for metal Industry, 3rd industrial zone, part 235, 6th of October, Egypt | Design and construction of open powder coating system with conveyer with a complete environmental consideration. | 2002 |
| 3 | Ministry of Electricity & Energy. Egyptian Electricity Holding Company. | Experimental investigation of the chemical additive on the Black oil combustion (gas analysis, dew point, flame characteristics. | 2006 |
| 4 | Farahat Company for | Testing the specifications and | 2007 |

| | |
|----|---|
| 8 | الشركة المصرية لمستلزمات الطرق |
| 9 | الشركة المصرية الأمريكية للبويات و الدهانات |
| 10 | شركة بروسبر واي للأسمدة |
| 11 | الشركة الوطنية للأكياس |
| 12 | شركة إيجبت ساك |
| 13 | شركة جيما لإكسسوارات الألومنيوم – عرب أبو ساعد |
| 14 | شركة الحسن لاستيراد وتصدير الحاصلات الزراعية |
| 15 | شركة الحسن لاستيراد وتصدير الحاصلات الزراعية المحطة رقم 1 |
| 16 | شركة الحسن لاستيراد وتصدير الحاصلات الزراعية المحطة رقم 2 |
| 17 | شركة إيتامكو غبور مركز صيانة العبور |
| 18 | شركة إيتامكو غبور مركز صيانة أبو رواش |
| 19 | شركة إيتامكو غبور مركز صيانة قليوب |
| 20 | الشركة المصرية للخدمات النسيجية |
| 21 | الشركة العربية الوطنية للأسمنت |
| 22 | شركة سوميكو ميتاليروجيكال إنديستري |

Engineering Arbitration committee:

| م | الاسم |
|---|---|
| 1 | شركة الرواد للصناعات الغذائية (روفي) |
| 2 | الشركة المصرية للجدران العازلة (إحدى شركات دكتور أحمد بهجت) |

Social Experience

Social and pleasant with others. Enthusiasm for learning and creation. Have an excellent communication skills in both verbal and writing. Working in team works. Participate in preparing “International Mechanical Power Engineering Conference”. IMPEC, Helwan University, Cairo, Egypt, 2000.

Publications

1- Bayomi, N. N., Maksoud, R. M., Nawar, M. A., and Heikal, H. A., 2013, “Valve with Variable Inherent Characteristics”, ISESCO Journal of Science and Technology, Vol. 9, No 15, pp. 58: 72.

2- Nawar, M. A., and Saker, A. A., 2014, "Experimental Study Of The Different Factors Affecting Jet Pump Performance," Eng. Res. J., Helwan University, VOL.141, March, pp. M1-M18, Cairo, Egypt.

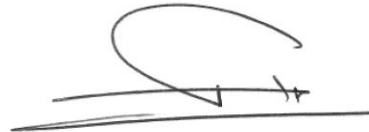
3- Bayomi, N. N., Abdel Hafiz, A., Nawar, M. A., and Heikal, H. A., 2014, " Experimental Investigation on the Interaction between Circular Wall Jets Issuing from Cylindrical Surfaces," ISESCO Journal of Science and Technology, Vol. 10, No 18, pp. 39: 48.

Publications in progress.

4- Nawar, M. A., Elgendy, E. and Mostafa, A., 2013, " Design of a Combined Cooling and Heating System Driven by Back Pressure Steam Turbine in Borg El-Arab", Eng. Res. J., Helwan University,

I declare that the information I have given in this C.V. is true and correct.

Signature: M. Nawar

A handwritten signature in black ink, appearing to be 'M. Nawar', written over a horizontal line. The signature is stylized with a large loop at the top and a horizontal stroke at the bottom.