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# CURRICULUM VITAE

**Prof. Emad H. Amer**

Professor of Thermal Engineering, Faculty of Engineering, Menofia University, Egypt

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## 1. PERSONAL INFORMATION



### EMAD HAMED AMER

📍 Department of Mechanical Power Engineering, Faculty of Engineering, Jamal Abdul Nasser St., Shebin El Kom, Menofia, Egypt.

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[amer.emad@gmail.com](mailto:amer.emad@gmail.com)

**Sex** Male  
**Date of birth** 9 Feb. 1963  
**Nationality** Egyptian

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## 2. EDUCATION

- 1. Ph. D. (1998)**  
**Thesis title:** “*Development of dynamic test procedures for flat-plate solar collectors*”.  
**Major:** Mechanical Engineering.  
**Minor:** Solar Energy.  
**Institute:** Indian Institute of Technology, Bombay, India.
  - 2. M. Sc. (1990)**  
**Thesis title:** “*Optimum choice of the solar thermosyphonic system*”.  
**Major:** Mechanical Engineering.  
**Institute:** Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.
  - 3. B. Sc. (1985)**  
**Overall rate of appreciation:** Very Good (84.6%)  
**Specialization:** Mechanical Power Engineering  
**Institute:** Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.
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## 3. EMPLOYMENT HISTORY

- 1. Full Professor**  
**(May 2016-Present)** Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.
- 2. Associate Professor**  
**(May 2007-May 2016)** Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.
- 3. Director**  
**(Jan 2014-Jun 2015)** Faculty and Leadership Development Centre  
Menofia University, Shebin El-Kom, Egypt.

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| <p><b>4. Acting Deputy, Planning &amp; Academic Development</b><br/><b>(Sept. 2012-Jan. 2014)</b></p> | <p>Jubail University College, Royal Commission for Jubail and Yanbu, Jubail Industrial City, Saudi Arabia.</p>                      |
| <p><b>5. Chairperson, Curriculum Development Department</b><br/><b>(Nov. 2011- Sept. 2012)</b></p>    | <p>Jubail University College, Royal Commission for Jubail and Yanbu, Jubail Industrial City, Saudi Arabia.</p>                      |
| <p><b>6. Head of Department,</b><br/><b>(Oct. 2009-Nov. 2011)</b></p>                                 | <p>Education Planning and Quality Department, Jubail Technical Institute, Royal Commission for Jubail &amp; Yanbu, Saudi Arabia</p> |
| <p><b>7. Head of Department,</b><br/><b>(Nov. 2008-Oct. 2009)</b></p>                                 | <p>Mechanical Skills Department, Jubail Technical Institute, The Royal Commission for Jubail &amp; Yanbu, Saudi Arabia.</p>         |
| <p><b>8. Assistant Professor</b><br/><b>(1998-2007)</b></p>   | <p>Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.</p>                |
| <p><b>9. Lecturer</b><br/><b>(1990-1998)</b></p>  | <p>Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.</p>                |
| <p><b>10. Demonstrator</b><br/><b>(1985-1990)</b></p>   | <p>Department of Mechanical Power Engineering, Faculty of Engineering, Menofia University, Shebin El-Kom, Egypt.</p>                |
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#### **4. NON-ACADEMIC EXPERIENCE**

**1. Consultancy Work for Center of Consultancy and Engineering Research, Faculty of Engineering, Menofia University**

1. Designing central air conditioning system for the national lever institute's new hospital (8 floors, 2 wings).
2. Designing and supervising installation of a complete solar water heating system (5000 L/day), Police department, Quesna Camp, Ministry of Interior Affairs.
3. Designing air conditioning works for study halls of Faculty of Medicine, Menofia University.
4. Repairing solar water heating system for Tala Hospital.
5. Evaluation and suggesting required maintenance work for central air conditioning system of Sadat Hotel.

**2. Consultancy Work for Mechanical and Electrical Research Institute (MERI), National Water Research Center (NWRC), Egypt.**

1. Repairs and maintenance of malfunctioning solar water pumping station at Wadi El-Natroun, Egypt.
2. Installation of a 7.5 kW photovoltaic water pumping system at Wadi El-Natroun, Egypt.
3. Member, the project team of the High Dam Museum project (Air conditioning, alarm, fire fighting)
4. Member of the project team of the High Dam Remote Sensing project
5. Design and install a weather station
6. Reclamation of 100 farms , 10 acres each (90% solar fraction

### **3. Consultancy Work for Egyptian Atomic Energy Authority (EAEA),**

1. Member, the project team of the Ground Water Pumping Using Solar Photovoltaics.
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## **5. ACADEMIC EXPERIENCE**

### **1. Ph. D scholar (May 1994 – April 1998)**

Energy Systems Engineering, Mechanical Engineering Department, Indian Institute of Technology, Bombay, India

### **2. Thesis Supervisor**

1. Mr. Mostafa M. Gad El-Rab, Ph.D. Thesis at Menofia University (Scientific Channel at Aachen Institute of thermodynamics, Germany), on "Application of Zeolite-Ammonia-Water in adsorption application."
2. Mr. Hamdy K. Mostafa, M. Sc. Thesis at Menofia University, on "Heat and Mass transfer coefficients for dehumidification-dehumidification desalination units".
3. Mr. Hamdy K. Mostafa, Ph. D. Thesis at Menofia University, on "Optimization of reverse osmosis seawater desalination".
4. Mr. Khalid Fetyan, Ph.D. Thesis at Al-Azhar University, on "Transient simulation and dynamic performance of directly coupled solar photovoltaic water pumping systems without battery storage"
5. Mr. Mahmoud Ismaiel, M. Sc. Thesis at Menofia University, on "Water desalination at low temperatures".
6. Mr. Mohamed Abdul-Wahid, M. Sc. Thesis at Menofia University, on "Air distribution in air conditioned spaces".

### **3. Reviewer**

Reviewer for international journals including

1. Solar Energy
2. Energy, the international journal
3. International Journal of Energy Research
4. International Journal of Thermal Sciences
5. Clean Air, International Journal on Energy for a Clean Environment

### **4. Trainee**

1. Professional Ethics, Faculty and Leadership Development Project, April 20-21, 2004
2. Modern Trends in Education, Faculty and Leadership Development Project, April 25-27, 2004
3. Enhancing Thinking Skills, Faculty and Leadership Development Project, May 14-17, 2005
4. Effective Communication Skills, Faculty and Leadership Development Project, May 25-28, 2005
5. Effective Presentation Skills, Faculty and Leadership Development Project, Jan. 28-30, 2006
6. Course Design, Faculty and Leadership Development Project, Feb 12-13, 2006
7. Training of Trainers, Faculty and Leadership Development Project, Aug. 20-24, 2006
8. Workshop on course reports, Quality Assurance and Accreditation Project, The supreme council of universities, Dec. 8-2007
9. Workshop on Program reports, Quality Assurance and Accreditation Project, The supreme council of universities, Jan. 5, 2008

10. Workshop on Basic Peer Reviewer, Quality Assurance and Accreditation Project, The supreme council of universities, Jan. 31-2008
11. Workshop on Advanced Peer Reviewer, Quality Assurance and Accreditation Project, The supreme council of universities, Feb. 3-2008
12. Operating the Developmental Engagements, Workshop for peer reviewers, The supreme council of universities, March 27-2008
13. Introduction to leadership and management workshop for heads of department and senior staff; PINZ, Jubail Industrial City, KSA, April 2010
14. Advanced Peer Review, Supreme Council of Universities, Cairo, Egypt, September 2012
15. Key Performance Indicators and Benchmarking For Academic Programs; NCAAA Workshop, Jubail Industrial City, KSA, March 2013.
16. Course and Program Learning outcomes, NCAAA Workshop, Jeddah, KSA, April 2013.
17. Quality Management and Academic Assessment, NCAAA Workshop, Jeddah, KSA, November 2013
18. Organizing Scientific Conferences, Faculty and Leadership Development Project, Nov. 8-9, 2015
19. Quality Management of Teaching in Higher Education, Faculty and Leadership Development Project, Nov. 10-11, 2015
20. Financial and Legal Aspects of University Administration, Faculty and Leadership Development Project, Nov. 15-16, 2015
21. The University and the Society, Faculty and Leadership Development Project, Nov. 17-18, 2015
22. Human Resources Management, Faculty and Leadership Development Project, Nov. 24-25, 2015
23. Decision Making and Problem Solving, Faculty and Leadership Development Project, Nov. 29-30, 2015

## **5. Participant**

1. The ISES 1997 Solar World Congress, Aug. 24-30, 1997, Taejon, Korea.
2. The National Solar Energy Convention, Dec. 22-24, 1997, Chennai, India.
3. The third ISHMT/ASME Heat and Mass Transfer, and 14<sup>th</sup> National Heat and Mass Transfer Conference, Dec. 29-31 1997, Kanpur, India.
4. The third conference of rural development in Egypt, Sept. 22-24, Cairo-Shebin Elkom, Egypt, 2001.
5. The International Symposium on Renewable Energy: Environment Protection and Energy Solutions for Sustainable Development. Sept. 14-17, 2003, Kuala Lumpur, Malaysia.
6. The world conference on energy for sustainable development: Technology advances and Environmental Issues. Dec. 6-9, 2004, Cairo, Egypt.
7. The fifth conference of rural development in Egypt, Sept. 27-29, 2005, Shebin El-Kom, Egypt.
8. The fifth international engineering conference, March 27-31, 2006, Mansoura & Sharm El-Sheikh, Egypt.
9. International Conference on "Sustainable Energy: Technologies, Materials, and Environmental Issues", Oct. 29-Nov. 1, 2007, Cairo, Egypt.
10. The 15<sup>th</sup> scientific annual conference of Menofia faculty of Medicine Sate Nutrition 24/4/208.
11. The fifth conference on the Heat Powered Cycles, TU Berlin, 7-9 Sept. 2009, Berlin, Germany
12. The energy and materials research conference EMR 2012, Torremolinos, Malga (Spain) 20-22 June 2012.
13. The first international conference on engineering and technology education, 14-15 May 2012, Jubail, KSA

## **6. Speaker/ Organizer/ Trainer**

1. Solar Energy, the inexhaustible source, members of the Science Club of Menoufia University, April, 2001.
2. Utilization of solar energy in domestic and industrial applications, Meeting of the science club students in Egyptian Universities, March, 2002.
3. Work shop on manufacturing solar thermal conversion devices, Faculty of Engineering, Menoufia University, Feb. 2004.
4. Design principles of photovoltaic systems, MERI, May 2004.
5. Digital Measurement Systems, MERI, May 2005.
6. Recent Technologies in Assessment of solar thermal conversion devices, NREA, Jan. 2006.
7. Computer applications and ICDL programs. Ministry of Communication and Menoufia University, (2003 – 2007)
8. The 15<sup>th</sup> scientific annual conference of Menoufia faculty of Medicine Sate Nutrition 24/4/2008
9. The energy and materials research conference EMR 2012, Torremolinos, Malga (Spain) 20-22 June 2012.

## **7. Quality Management in Higher Education**

1. Certified Quality Assurance Trainer, Supreme Council of Universities, Egypt.
2. Peer Reviewer, Quality Assurance and Accreditation Project, (Two site visits).
3. Director, Quality Assurance Unit, Faculty of Engineering, Menoufia University (Dec. 2007-Feb. 2008).
4. Member, Quality Center, Menoufia University.
5. Team leader, ISO 9001: 2008 accreditation, JTI, Saudi Arabia.
6. Team Leader, ABET EAC accreditation of Mechanical and Civil Engineering programs, JUC, Saudi Arabia.

## **8. Others**

1. Supervisor, Industrial Incubation Centre, small and medium projects, technology and innovation Centre, JTI, Saudi Arabia.
2. Supervisor, sports committee, student's union, faculty of engineering, Menoufia University.
3. Executive supervisor, Faculty and Leadership Development Program, Menoufia University.
4. Member, computer training committee, Menoufia University (2002-2007).
5. Member, organizing committee, 8<sup>th</sup> Week of Universities Youth, Menoufia University

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## **6. TEACHING EXPERIENCE**

### **1. Under-Graduate Courses**

Solar Energy, Thermodynamics, Heat Transfer, Thermal Energy Systems, Heat Engines, Computer Applications, Steam Technology, Mechanical Measurements, Engineering Drawing, Thermal Power Stations, Refrigeration and Air Conditioning, Computer programming, Water Desalination, Thermal Engineering, Renewable Energy Sources, Numerical Methods.

### **2. Post-Graduate Courses**

Renewable Energy, Advanced Thermodynamics, Numerical Analysis, Advanced Heat and Mass Transfer, Wind Energy Systems, Air-Conditioning

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## **7. CURRENT RESEARCH ACTIVITIES**

- 1- Solar thermal applications

- 2- Water desalination
1. Solar photovoltaic applications
2. Absorption refrigeration
5. Adsorption refrigeration
6. Phase equilibrium

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## **8. CERTIFICATIONS & PROFESSIONAL REGISTRATIONS**

- 1- Certified ICDL Trainer
- 2- Certified Quality Assurance Trainer, Supreme Council of Universities, Egypt.
- 3- Certified Quality Reviewer, Supreme Council of Universities, Egypt.

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## **9. PUBLICATIONS**

The total number of published research papers is 34 articles. They are classified into the following categories:

<b>Papers in International Journals:</b>	<b>17</b>
<b>Papers in National Journals:</b>	<b>5</b>
<b>Papers in International Conferences (Held abroad):</b>	<b>6</b>
<b>Papers in International Conferences (Held inland) :</b>	<b>4</b>
<b>Papers in National Conferences:</b>	<b>2</b>

A detailed list of publications is available upon request.