

# CURRICULUM VITAE

## NAME

**Amr Mohamed Aly Abdel-Raouf**

## ADDRESS

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Giza, Egypt

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## PERSONAL DATA

Date of Birth: November 6, 1955

Place of Birth: Cairo, Egypt

Family Status: Married

## EDUCATION

### **D.Sc. Mechanical Power Engineering**

Technical University of Graz, Graz, Austria, 1989.

### **M.Sc. Mechanical Power Engineering**

Cairo University, Egypt, 1982.

### **B.Sc. Mechanical Power Engineering**

Cairo University, Egypt, 1978 (**With Honors**)

## POSITIONS

- Assistant Professor (May 1989 – present)  
Department of Mechanical Power Engineering, Cairo University, Egypt.
- Assistant Professor (September 1992 – August 1994)  
Faculty of Mechanical and Electrical Engineering, Tahadi University, Hoon, Libya.
- Assistant Lecturer (April 1982- April 1989)  
Department of Mechanical Power Engineering, Cairo University, Egypt.
- Research Assistant (October 1985- March 1989)  
Technical University of Graz, Graz, Austria.
- Member of the teaching staff at Higher Technological Institute,  
10<sup>th</sup> of Ramadan City (September 1989 – August 1991)
- Teaching Assistant (November 1978 - March 1982)  
Department of Mechanical Power Engineering, Cairo University, Giza, Egypt.

## MEMBERSHIPS

Professional Affiliations: Professional Engineer, the Egyptian Society of Engineers.

## APPOINTMENTS

- Member of the research team for the following projects:
  1. Steam Generators, Energy Research Center, Cairo University, 1990.
  2. Energy Reference Booklets (Energy Conservation), FRCU Project, No. 98003, Cairo University, 1992.
  3. Performance Evaluation and Improvement of Local Thermal Power Stations, Ministry of Electricity, 1992.
  4. Study of Boilers Operation in Industrial Companies in Egypt, Organization for Energy Planning, 1992.

5. Hazardous Explosions, FRCU Project No. 81015, Cairo University, 1983-1985.
  6. Feasibility of Implementing Fuel Cells for Power Generation in Areas not connected to the Grid, U.S. Dept. of Energy, Federal Energy Technology Center, Sept.2000–Aug.2002.
  7. Review and Evaluation of a Loader Wheel Design, Center of Studies and Training in Mechanical Power Engineering, Faculty of Engineering, Cairo University, Feb. 2007.
  8. Parametric & Economic Investigation of Various Stand Alone & Hybrid Proton Exchange Membrane (PEM) Fuel Cell Systems, Accepted Proposal, Higher Studies Research Office, Cairo University, September 2007.
- Consultant at the Development Research and Technological Planning Center, Energy and Environment Studies Unit, Cairo University (May 1996 – present).
  - Member of the Proposals Implementation Monitoring Committee, Engineering Education Development Project, Ministry of Higher Education (March 1996 – 1999).

## **MAIN RESEARCH OR TECHNOLOGY TOPICS**

### **Significant Professional Accomplishment**

- Preparation of complete technical specifications for instrumentation and control for several boiler plants and water treatment plants.
- Supervision of installation/ commissioning/ testing of the instrumentation and control for several boiler plants and water treatment plants.
- Participated in software development for complete design of a sugar manufacturing factory in Egypt.
- Preparation of an energy conservation plan for a starch and glucose manufacturing factory in Egypt.
- Preparation of an energy conservation plan for Eastern Company in Egypt.

### **Main Research Topics**

- Gas Dynamics of Explosions.
- Combustion in Furnaces.
- New and Renewable Energy Sources.
- Heat Transfer Equipment.
- Fuel Cells.

## **TEACHING COURSES**

- Heat Transfer.
- Mass Transfer.
- Heat Exchangers.
- Energy Conversion.
- Thermodynamics I & II.
- Applied Thermodynamics.
- Refrigeration.
- Air Conditioning.
- Heat Engines.
- Power Plants.
- Mathematics I & II & III & IV.
- Engineering Mechanics I & II.
- Engineering Drawing.
- Engineering Economy.
- Automatic Control Theory.