



## Curriculum Vitae

*Ramadan Bassiouny, PhD*  
*Professor*  
*Dept. of Mechanical Power Eng. & Energy*  
*Faculty of Engineering*  
*Minia University*  
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- **Personal ID:**
  - Name : **Ramadan Bassiouny Mohamed Abdul-Ghani Khater**
  - Date of Birth : *December 25, 1965.*
  - Place of Birth : *Minia, Egypt.*
  - Marital Status : *Married, three daughters and son.*
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- **Qualifications:**
  - **PhD, Texas A&M University, TX, USA, 2000**  
**(Advisor: Prof. Dr. Dennis L. O'Neal)**
  - **M.Sc, Minia University, Minia, Egypt, 1993.**
  - **B.Sc, Minia University, Minia, Egypt, 1988.**
  
- **Languages:** English (excellent)  
Arabic (Native language)
  
- **Occupations:**
  - **Dean**, faculty of Engineering, Minia university, Minia since August 2018 till now.
  - **Vice Dean for Education and Students Affairs**, May 2017—August 2018.
  - EC member, Center of Quality Assurance and Accreditation, Minia University, August 2015 till now.
  - Manager, Quality Assurance and Accreditation Unit, Faculty of Engineering, Minia University, August 2015 till now.
  - Interim Dept. Head, since August 2013 till May 2017.
  - Associate Professor, Dept. of Mech. Eng. & Energy, Minia University, since August 2009 till December 2016.
  - Assistant Professor, Dept. of Mech. Eng. & Energy, Minia University, since Dec. 2000- 2009.
  - Teaching Assistant, Dept of Mechanical Engineering, Texas A&M University, TX, USA, spring of 2000.
  - Teaching Assistant, Dept of Mechanical Engineering, Texas A&M University, TX, USA, fall of 1999.
  - Teaching Assistant, Dept. of Mechanical Engineering, Minia University,

- 1993-1996.
  - Demonstrator, Dept. of Mechanical Engineering, Minia University, 1988-1993.
- **Affiliations:**
  - Member, Minia Quality Assurance and Accreditation Center.
  - Member, Egyptian Engineering Syndicate.
  - Associate Member, ASME, 2000.
  - Student Member, ASME, 1999.
  - Student Member, ASHRAE, 1999.
  - President, Egyptian Student Association Unit, TAMU, 1997.
  - Member, Minia University faculties club.
  - Member, Quality Assurance and Accreditation Program unit in the faculty of engineering, Minia University, 2005-2006.
- **Quality Assurance Training Sessions:**
  - Program specifications and Curriculum maps for higher education institutions, Dec. 12-13, 2013.
  - Effective Learning in higher education institutions, Dec. 14-15, 2013
  - Self-Evaluation of higher education institutions, Jan. 8-9, 2014.
  - External Evaluation of higher education institutions, Jan. 10-11, 2014
- **Teaching Experience:**
  - Teaching since 1988 in the faculty of Engineering, Minia University.
  - Taught at Aswan High Institute of Energy, Aswan, Egypt, 2003-2007.
  - Taught at the Higher Technological Institute, Minia, Egypt, 2006-2008.
  - Taught at the College of Industrial Education, Beni-Seuif, Egypt 2004-2009.
  - Taught and has been teaching the following courses:
    - \* **Undergraduate level:**  
Refrigeration and air conditioning, Heat transfer, Fluid Mechanics, Thermodynamics, Industrial ventilation, Pollution, Hydraulic Machines, Energy systems, Heat engines, Mathematics, Engineering Computer applications, Pollution, IT, Profession ethics and legislations, Technical Writing, QBASIC and FORTRAN, CFD.  
**Course Taught at Texas A&M Univ. (Fall 1999 and Spring 2000)**  
Intermediate Fluid mechanics / Thermodynamics.
    - \* **Graduate level:**  
Advanced Engineering Computer Applications, Numerical Methods in Energy Science (finite difference, finite volume, and finite element methods), Evaporative Cooling, Automobile Air Conditioning, Ventilation systems.
- **Interested areas:** CFD, Thermo-fluids area, refrigeration and air conditioning, IAQ, Heat transfer equipment analysis.
- **Computer skills:**
  - Microsoft package (Word, Excel, Power point, access).
  - Visio for technical drawings.

- Engineering Equation Solver, EES
  - Tecplot, Sigmaplot.
  - ANSYS, FLOTRAN.
  - FLUENT-GAMBIT
  - Ms-Dev for FORTRAN programming.
  - HTML, and Internet browser and search.
- **Awards:**
    - Certification of Outstanding Reviewing, International Journal of Refrigeration, 2017.
    - Certification of Outstanding Reviewing, J. Energy and Buildings, 2017.
    - Certification of Outstanding Reviewing, Applied Thermal Engineering, 2017.
    - Appreciation Medal, Minia University, 2<sup>nd</sup> place among 19 faculties for quality assurance activities, Dec. 2015.
    - Appreciation Plaque, Minia University, Evaluation of Quality Assurance and Accreditation Standards of different faculties, Dec. 2015.
    - Distinction certificate, Faculty of Engineering, Minia University, 2008.
    - Distinction Plaque, Faculty of Engineering, Minia University, 2007.
    - Listed in Who's Who in Science and Engineering, 2003-2004, 7<sup>th</sup> edition.
    - Gaining a Teaching Assistant position at Texas A&M University 1999-2000.
    - Gaining a scholarship from the Egyptian Ministry of high education to study Ph.D. in Texas A&M University, Texas, USA 1996.
    - First of 1988-class, Dept. of Mechanical Power Eng., Minia University.
- **Journals Reviewer:**
    - **Reviewer** for the International Journal of Refrigeration since 2014.
    - **Reviewed** for the International Journal of Heat and Mass Transfer in 2008.
    - **Reviewer** for the Journal of Energy and Buildings since 2008.
    - **Reviewer** for the Applied Thermal Engineering in 2015.
    - **Reviewer** for the Minia Journal of Engineering and Technology, MJET.
- **Training and Other Experiences:**
    - Attended a workshop organized by the Engineering studies sector in Cairo university with the attendance of minister of high education for bylaws outlines and modification, March 2016.
    - Attended four workshops for quality assurance and accreditation in: Programs and courses specifications, self-assessment of higher institutions, external reviewing, and effective learning, December 2013 and January 2014.
    - Attended a training program for faculty and leaders performance development, Minia University, Egypt, November 2004.
    - Attended a CFD short course, East Lansing, Michigan, USA, 2000.
    - Work with GTE, American Phone Company, during military service, 1989-1990, Egypt.
    - Attended a training program in Cableco Jordan, Al-Zarqa, Jordan in 1987.
    - Attended a training program in Al-Nasr Company for Automotive manufacturing, Helwan, Egypt, 1986.
    - Design the logo of the department of Mechanical Power Engineering and Energy, Minia University, 2009.

- Prepared a complete course syllabus for the graduate studies in the department of Mechanical Power Engineering and Energy, Minia University, 2009.
- Prepared the Department “ Statements of vision, mission and goals”.
- Translated all the courses (names, and contents) for graduate and undergraduate levels.

- **Member of Supervision Committees:**

- **Senior Level Graduation Projects:**

- Experimental Measurements on an Educational, Locally, Manufactured Central Air Conditioning Unit, 2003.
- The Effect of Spray Water Characteristics on an Evaporative Humidifier, 2004.
- Design of a Central Air Conditioning System for a Selected Floor in the New Building of the Faculty of Engineering, 2005.
- Design and Building a Water Cooling System, 2006.
- Analysis of Water Chillers Used for Air Cooling, 2007.
- Design and Measuring the Performance of an Evaporative Cooler, 2007.
- An Experimental Investigation on Room Ventilation Based on Solar Chimney Principle, 2007.
- Evaluating the Performance of a Household Refrigerator. Aswan. 2008.
- Direct Evaporative Cooling Process using Water Spray. Minia 2008.
- Designing an manufacturing an office refrigerator. Beni Suef 2009.
- Modify a portable stand-fan to include a water spray coil. Beni Suef 2011.
- Design a test bed to evaluate the performance of a thermosyphon. Minia 2011.
- Design of a House-hold refrigerator, Minia, 2014.

- **Master Students:**

- **Completed theses:**

- Eng. Hussein Mohamed Maghrabie. Thesis title is “*An Experimental Study on Flow Characteristics and Thermal Performance of an Evaporative Humidifier*”. Defended on September 2004.
- Eng. Mohamed Ramadan Gomaa. Thesis title is: “*Flow in asymmetric diffusers*”. Defended on March 2007.
- Eng. Mohamed Hamdy Mahmoud. Thesis title is “*Studying the Effect of Using a Ceiling Fan of Room Flow Pattern and Comfort Level*”. Defended on July 2008.
- Eng. Ahmed Abdel-Hady Abdel-Sami. Thesis field: “*Enhancement of Film Cooling Performance in Case of Secondary Flow Injection through a Row of Holes*”. Defended in March 2010.
- Eng. Hamada Mohamed Abd Arrahman. Thesis title is: “*Studying the Effect of Alternative Refrigerants on System Performance and Ozone Depletion*”. Defended in December 2010.
- Eng. Hisham M. Abdel-Wahab. Thesis topic is: “*Investigation of the thermal performance of PC heat sink of different geometries*”. Defended, March 2015.

- **In progress theses:**

- Mostafa M. Ibrahim. Thesis title:” Studying forced convective heat transfer enhancement using nanofluids” in 2014.
- Mahmoud M. Soubi. Thesis field: “ Heat transfer and renewable energy”. 2015.
- Aya M. Nousir. Thesis field: “ Constructing material and energy savings”.2015.
- Manal H. Ibrahim. Thesis field: “Refrigeration and air conditioning”.2015.
- Shyma’a A. Hamza. Thesis field: “Refrigeration and air conditioning”. 2015.
- Mohamed M. Abdel Ghani. Thesis field: Ventilation and Air conditioning” 2015.

- **PhD Students:**

- Eng. Morad Gergis Demian Beshai. Thesis title is: “ Investigation of the performance of an ejector refrigeration system powered by low-grade thermal energy”. In progress.

- **Publications:**

- **Books:**

- ✓ Nader S. Korah and **Ramadan Bassiouny 2010. Scientific and Technical Writing: An Engineering Approach**, Book No. 23736/2010, Monsha’at Al Ma’aref publishing Co., Alex, Egypt.  
*The book is a text book that is mainly designed for the first- year students of Mech. Engineering major or any technical or scientific major.*

- **Scientific Articles:**

1. **Ramadan Bassiouny**, Mohamed R. O. Ali, Mohamed K. Hasan. An Idea to enhance the thermal performance of HDPE pipes used for ground-source applications, *Applied Thermal Engineering 109 (2016)15–21*.
2. **Ramadan Bassiouny**, Mohamed R. O. Ali and El-Sadek H. NourEldeen Modeling the Thermal Behavior of Egyptian Perforated Masonry Red Brick Filled with Material of Low Thermal Conductivity, *Journal of Building Engineering 5 (2016)158–164*.
3. **Ramadan Bassiouny**, Hisham Maher, Adel A. Hegazy. On the thermal analysis of a plate-fin heat sink considering the thermal-entry length effect, *Applied Thermal Engineering 99 ( 2016) 273-279*.
4. Hisham Maher, **Ramadan Bassiouny**, Adel A. Hegazy. An Experimental and Analytical Study of the Thermal Performance of a Plate-Fin Heat Sink, MJET, Minia university, January 2015.
5. **Ramadan Bassiouny**, Nader S. Korah. Studying the features of air flow induced by a room ceiling-fan, *Energy and Buildings*, Volume 43, Issue 8, August 2011, Pages 1913-1918.
6. Ibrahim M. El Moghazy, **Ramadan Bassiouny**, Hamada M. A. Rahman. Experimental Investigation of the Performance of Refrigeration System using R406a and R134a. MJET, faculty of Engineering, Minia university, July 2011.

7. Bassily Hanna, M, Ibrahim M. ElMoghazy, **Ramadan Bassiouny**, Ahmed A. A. Elsamie. An Investigation of Flow Pattern as a Result of an Injection through a Row of Holes. *The 2<sup>nd</sup> International Conference on Energy Engineering, ICEE-2, Aswan, Egypt, Dec. 27-29, 2010.*
8. Ahmed A. A. Elsamie, **Ramadan Bassiouny**, Ibrahim M. ElMoghazy, Bassily Hanna, M. Studying the Film Cooling Effectiveness in Case of Secondary Flow Injection through a Row of Inclined Cylindrical Holes. *The 2<sup>nd</sup> International Conference on Energy Engineering, ICEE-2, Aswan, Egypt, Dec. 27-29, 2010.*
9. **Ramadan Bassiouny**. Evaluating the Effect of the Space Surrounding the Condenser of a Household Refrigerator. *The International Journal of Refrigeration*, (2009.), V 32 ( 7) 1-12.
10. **Ramadan Bassiouny** and Nader S. A. Koura. Effect of Solar Chimney Inclination Angle on Space Flow Pattern and Ventilation Rate. *Energy and Buildings*, 41 (2009) 190-196.
11. **Ramadan Bassiouny** and Nader S. A. Koura. An Analytical and Numerical Study of Solar Chimney Use for Room Natural Ventilation. *Energy and Buildings*, 40 (2008) 865-873.
12. Mohamed Hamdi, **Ramadan Bassiouny**, Nader S. A. Kora, Magdy A. Bassily. Assessment of Room Air Distribution as a Result of using a Ceiling Fan. *Bulletin of the Faculty of Engineering, Minia University*, (28) 1 , 2009.
13. **Ramadan Bassiouny** and Dennis L. O’Neal. A Numerical Estimate of Flexible Short-Tube Flow and Deformation with R-134a and R-410a. *ASHRAE Transactions*, Vol 114 (2) 2008.
14. Magdy A. Bassily Hanna , A. M. EL-Kersh , **Ramadan Bassiouny** , M. R. Gomaa. Air Flow Characteristics in an Asymmetric Plane Diffuser under Different Inlet Conditions. *Bulletin of the Faculty of Engineering, Minia University*, (27) 2, 2008.
15. **Ramadan Bassiouny**, Mohamed R. Diab, Maher A. Mohamed, and Hussein M. Maghrabie. Experimental study of air evaporative cooling with a downward water spray. *Bulletin of the Faculty of Engineering, Minia University*, (25) 2, 2006.
16. Maher A. Mohamed, Mohamed R. Diab, **Ramadan Bassiouny**, and Hussein M. Maghrabie. Studying the Performance of a Counter-flow, Vertical Evaporative Humidifier. *J. Engineering Science, Assiut University* (34) 3 pp 719-732, 2006.
17. M. Bassily, A. Hegab, and **R. Bassiouny**. A Study of Combined Solar Energy Conversion and Waste Heat Recovery at Electrical Power station, Mout, Egypt, Proceeding of the 4th ERD5 Conference, Faculty of Engineering, Shebin El-Kom, September 2005.
18. **R. Bassiouny**. 2004. “A Numerical Prediction of 3D Air Turbulent Flow through a Non-Circular, Variable Cross-Section, Vertical Enclosure”. *International Mechanical Engineering Conference & Expo, Kuwait, December 2004.*
19. **Ramadan Bassiouny** and Dennis O’Neal. Analysis of refrigerant flow and deformation for a flexible short-tube using a finite element model. *Int’l. J. of Refrigeration*. 2004, 27: 176-183.

20. **Ramadan Bassiouny** and Dennis O’Neal. A Numerical Study of Pressure Distribution and Flow through Rigid Short-Tube Orifices. ASHRAE Transactions 108(1), 2002.
21. M. Bassily Hanna, and **R. Bassiouny**. 2002. Increasing the exergy of the power plants using the solar chimney idea. Institut für Thermische Energietechnik, Universität Kassel, Kassel. 29.08.2002, Germany.
22. Diab, M. R., Morsy, B. K., A. Azeim, O., **Mohamed. R. B.** 1995. An experimental study on the performance of an air distribution system. Bulletin of the faculty of engineering and technology. Minia University: Vol(14) 1 217-232.
23. Diab, M. R., Morsy, B. K., A. Azeim, O., **Mohamed. R. B.** 1995. Air flow characteristics of a psychrometric test chamber with variable ventilation openings. Bulletin of the faculty of engineering and technology. Minia University: Vol(14) 1 234-252.

- **References:**

- **Professors with whom I worked:**

- **Prof. Dennis O’Neal\***, PE, Dean of Baylor School of Engineering and Computer Science, Baylor, Waco, TX 76798. USA.
- **Prof. A. R. McFarland\***, Wyatt Professor, Dept. of Mechanical Engineering, Texas A&M University, College Station, TX 77843, USA.
- **Prof. Dr. Gamal El Deen Ali Abu Al Majd**, Professor and University President, Minia University, Minia 61111, EGYPT.
- **Prof. Dr. Magdy A. Bassily**, Emeritus Professor, Dept. of Mech. Power Eng. and Energy, Minia University, Minia 61111, EGYPT.
- **Prof. Dr. Ibrahim M. ElMogahzy**, Emeritus Professor, Dept. of Mech. Power Eng. and Energy, Minia University, Minia 61111, EGYPT.