


Curriculum Vitae

Name	Waleed Ahmed Abdel-Fadeel Abdel-Rahman	
Academic Grade	Ph. D. (Mechanical Power Engineering)	
Profession	Assistant Professor	
Date & Place of Birth	19/10/1969 – Souhag, Egypt	
Sex	Male	
Nationality	Egyptian	
Marital Status	Married	
Languages	Arabic (Native) - English (Very good)	
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Education

July 1992	Bachelor of Science (B.Sc.), Mechanical Engineering, Faculty of Engineering, Cairo University
April 1999	Master of Science (M.Sc.), Mechanical Power Engineering, Faculty of Engineering, Cairo University Title of the Thesis “ Computation of the Flow in S-shaped Diffusing Ducts”.
August 2005 Japan (May 2001– May 2003)	Doctor of Philosophy (Ph.D.), Mechanical Power Engineering, Supervision of Faculty of Engineering- Gunma university-Japan and Faculty of Engineering Cairo university- Egypt. Title of the Thesis “Experimental and Theoretical Investigation of the Turbulent Free Jet, Particle-Laden Flows”.

Professional Positions

June 1993 – August 1999	Demonstrator, Mechanical Power Department, Faculty of Energy Engineering – Aswan University.
August 1999 – November 2005	Assistant Lecturer, Mechanical Power Department, Faculty of Energy Engineering – Aswan University.
November 2005	Assistant Professor (Lecturer), Mechanical Power Department, Faculty of Energy Engineering – Aswan University.
January 2007 – Till Now	Member of Quality Assurance and Accreditation Unit, Faculty of Energy Engineering – Aswan University.
January – November 2008	Vice-Dean for Post Graduate Studies and Research, Faculty of Energy Engineering – Aswan University.
February 2008 – August 2009	General Supervisor of the Transportation Department, South Valley University, Aswan Branch.
March 2008	Vice Director of Quality Assurance and Accreditation Project (QAAP2), Faculty of Energy Engineering – Aswan University.
June 2009 – December 2009	Vice-Dean for education and student affairs, Faculty of Energy Engineering – Aswan University.
October 2010 – November 2013	Director of Quality Assurance and Accreditation Unit, Faculty of Energy Engineering – Aswan University.
December 27-29, 2010	General secretary of the 2 nd international conference of energy engineering (ICEE-2), Aswan, Egypt.
September 2012 – March 2013	General Supervisor of the Transportation Department, Aswan University.
January 1st, 2014 – June 25th, 2014	Vice-Dean for education and student affairs, Faculty of Energy Engineering – Aswan University.
January 11, 2014 - 2017	Director of operating and activating the electronic portals project – Aswan University.
April 20, 2014	President of the 3 rd youth researchers conference – Aswan University.
June 25th, 2014	Vice-Dean for community service and environmental affairs, Faculty of Energy Engineering – Aswan University.
November 2014 - 2018	Associate of central air condition, gas networks and elevators in Aswan University Hospital.

2018- present	Head of Mechanical Power Department, Faculty of Energy Engineering – Aswan University.
2019- present	Vice manager of the Public Service Center for the maintenance of cars, electrical, scientific and medical devices in Aswan University.

Experiences & workshops

August 13 - September 1st , 1994	Passed the Educational Program with Distinction grade, Ministry of Higher Education.
October 29–30, 1995	Attended a training course on: Case Studies in Energy Management, Energy Conservation & Environment Project, Federation of Egyptian Industries.
1995-1997	Trainer on computer science and information technology centre, Aswan Governorate.
November 27 – December 2nd , 1999	Attended a Training Program on: Leadership, Institute of Leadership in Helwan, Ministry of Higher Education.
November 18-22, 2000	Attended a training course on: Laser Diagnostics of Combustion Processes, Industrial Development Organization, United Nations, Cairo, Egypt.
2006-2007	Passed the training programs on “Management of Scientific Research” “Credit Hours” “Development of Management skills” “Using Technology in Teaching” “ Teaching Evaluation”, Faculty and Leadership Development Project, South Valley University.
November 11-16, 2006	Completed the E-content course successfully, Microsoft, Egypt.
May 19-23, 2007	Completed the training program on “Training of Trainers (TOT)” successfully, Pathways to Higher Education Project, Aswan.
June, 2007	Member of a technical committee investigated in the accident of firing the answered papers of the general high school exam, Kom Umbo, Aswan.
June, 2007	Trainer on “Pathways to Higher Education Project”.
Nov. 20, 2007	Attended the International Symposium on: "Water for Growth", Aswan, Egypt, Sponsors: Lake Nasser Development

	Authority (LNDA), South Valley University (SVU), Institute for Technology in the Tropics (ITT), Cologne University of Applied Sciences, German Academic Exchange Service (DAAD).
Nov. 20, 2007	Attended the DAAD Expert Seminar on : "Integrated Water Resources Management (IWRM) in Upper Egypt", Aswan, Egypt, Sponsors: LNDA, SVU, ITT and DAAD.
Feb. 16-17, 2008	Attended the workshop on "Optimizing water Allocation in Rural Areas of Lake Nasser- (OARA)", Aswan, Egypt, Sponsors: LNDA, SVU and ITT.
May, 2008	Member of a technical committee investigated in the technical condition of the ship owned by the High Dam Authority, Aswan.
November 10-11, 2008	Attended the program on “ Science Year Follow up event”, German Academic Exchange Service (DAAD), Conference Centre, Cairo University.
November 12-13, 2008	Attended the program on “ Germany Alumni Fair”, German Academic Exchange Service (DAAD), Conference Centre, Cairo University.
December 28-31, 2008	Attended the 1 st international conference of energy engineering (ICEE-1) and participated as a member of the organization committee, Aswan, Egypt.
February 8-10, 2010	Attended the workshop on “ Program Assessment Leaders” American Authority for Leadership and Quality Assurance in Applied Science, Computing Engineering and Technology Education (ABET) cooperation with National Authority for Quality Assurance Accreditation of Education, Cairo.
March 14-18, 2010	Completed the training program on “Self-evaluation for higher education” (Training program for external reviewer) National Authority for Quality Assurance Accreditation of Education, Aswan.
April 11-15, 2010	Completed the training program on “External reviewer for higher education” (Training program for external reviewer)

	National Authority for Quality Assurance Accreditation of Education, Aswan.
December 27-29, 2010	Attended the 2 nd international conference on energy engineering (ICEE-2), Aswan, Egypt.
May, 2012	Reviewer of international journals of “Energy and buildings”, “Building and Environment”, “Applied Thermal Engineering”, and “International Journal of Refrigeration”
December, 2013-2019	Member of a committee for evaluation the high institutes of engineering and technology, Ministry of higher education.
December, 2013	Member of a committee for evaluation the faculty of technology, south valley, Ministry of higher education.
April, 2014, 2015	Receiving a university award for scientific publishing in 2013, 2014 with three research published in international journals.
2014 – Till Now	Teaching at :the Arab Academy for Science, Technology and Maritime Transport Branch South Valley - Faculty of Engineering at the University of Aswan - Workers University Branch Aswan.
February 1-4, 2015	Member of the 4 th youth researchers conference – Aswan University.
February 27 – March 3, 2015	Judge of the Intel International Science and Engineering Fair (ISEF) – Egypt 2015, Aswan.
May 5-7, 2016	Attended the regional training workshop on "Climate changes and sustainability policy", Frederick university, Nicosia, Cyprus.
February 28 – March 3, 2017	Attended the regional training course on " The socio-economic impact of the implementation of renewable energy", University of Cyprus, Nicosia, Cyprus.
January 10 – 11, 2018	Participated in the DESIRE 1 st train of trainer workshop on " Energy Transition and Socio-economic Impacts of Renewable Energy and Energy Efficiency", German Jordanian university, Amman, Jordan.
June 27 – 29, 2018	Participated in the DESIRE 2 nd train of trainer workshop on " Technological innovations of renewable energy resources, and

	“Jobs creation in renewable energy and Energy efficiency technologies” University of Cyprus, Nicosia, Cyprus.
July 12 – 13, 2018	Participated in the DESIRE 3 rd train of trainer workshop on “Health, well-being and Environmental Quality” and “Climate effects, Environmental Management and Sustainable Development”, Sapienza university, Rome, Italy.
August 1 –3, 2018	Participated in the DESIRE 4 th train of trainer workshop on “Economics of Renewable Energy Systems ” and “Integration and system aspects of renewable energy resources ”, Technical University of Dresden, Dresden, Germany.

List of Publications:

- 1- Youssef, I. M., Arai, T., **Abdel-Fadeel, W. A.**, Iizuka, A., Ishima, T., Obokata, T. "Flow dynamics in a gas-solid two-phase jet by means a Phase Doppler anemometer" 11th international symposium on applications of laser techniques to fluid mechanics, 8-11 July, Lisboa, Portugal, 2002.
<http://tces.dem.ist.utl.pt/lxllaser/lxllaser2002/abs.html>
- 2- Arai, T., Kudo, N., Ishima, T., Youssef, I. M., Obokata, T., and **Abdel-Fadeel, W. A.** "Turbulence structure of a liquid-solid two-phase jet by means of Laser techniques" 8th international symposium on liquid-solid flows, ASME Fluids Engineering Division, 6-10 July, paper No. FEDSM2003-45495 pp. 847-853. Honolulu, Hawaii, USA, 2003.
<http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1582364>
- 3- Ishima, T., Yokota, M., Arai, T., Youssef, I. M., **Abdel-Fadeel, W. A.**, and Obokata, T. "Particle motion in water-particle, gas-particle and gas-droplet two-phase flows" 16th international symposium on transport phenomena (ISTP), Aug. 29 - Sep. 1, paper No. 116. Prague, Czech Rep, 2005.
http://fluids.fs.cvut.cz/akce/konference/istp_2005/full/116.pdf
- 4- Aissa, W. A., Eissa, M. S., **Abdel-Fadeel, W. A.**, and Mohamed, I. K. "Experimental and numerical study of low aspect ratio asymmetric diffuser" Journal of engineering sciences, Assiut university, Vol. 37, No. 2, pp. 363-374, March 2009.
http://www.aun.edu.eg/journal_files/20_J_5952.pdf
- 5- **Abdel-Fadeel, W. A.**, Serag-Eldin, M. A., and Mohamed, H. S. "An empirical correlation for particle mean velocity in the near field air jet" 2nd international conference of energy engineering (ICEE-2) , Aswan, Egypt, December 2010.

- 6- Abdel-Hady, S. M., Hassanein, S. A., **Abdel-Fadeel, W. A.** and Abdel-Mohsen, H. S. "Experimental analysis of energy recovery for humidity control in split A/C system" *Energy and Buildings*, Vol. 43, No. 11, pp 3053–3058, November 2011.
<http://www.sciencedirect.com/science/article/pii/S0378778811003318>
- 7- **Abdel-Fadeel, W. A.** and Hassanein, S. A. "Experiments and calculations of the room temperature affected by a direct evaporative cooler during hot and dry climate." *Journal of engineering sciences, Assiut university*, Vol. 40, No. 3, pp. 723-730, May 2012.
http://www.aun.edu.eg/journal_files/87_J_6220.pdf
- 8- **Abdel-Fadeel, W. A.** and Hassanein, S. A. "Calculations of the outlet air conditions in the direct evaporative cooler" *Journal of engineering sciences, Assiut university*, Vol. 40, No. 5, pp. 1351-1358, September 2012.
http://www.aun.edu.eg/journal_files/89_J_6606.pdf
- 9- Hassanein A. S. and **Abdel-Fadeel W. A.** "Improvement of natural ventilation in building using multi solar chimneys at different directions" *Journal of engineering sciences, Assiut university*, Vol. 40, No. 6, pp. 1661-1677, November 2012.
http://www.aun.edu.eg/journal_files/90_J_721.pdf
- 10- **Abdel-Fadeel W. A.** and Hassanein S. A. "Temperature variations, inside a parked car in hot and dry climates" *International Journal of Automobile Engineering Research & Development (IJAuERD)*, Vol. 3, No. 1, pp. 75-80, March 2013.
<http://www.tjprc.org/download.php?fname=2-23-1362227595-9%20-Temperature%20-full.pdf>
- 11- **Abdel-Fadeel W. A.** "Indirect Evaporative Cooling Availability and Thermal Effectiveness Characteristics in Air-Water Systems of Hot and Dry Climates" *International Journal of Engineering & Technology (IJET/IJENS)*, Vol. 13, No. 2, pp. 40-52, April 2013.
http://www.ijens.org/Vol_13_I_02/132002-8181-IJET-IJENS.pdf
- 12- Hassanein S. A., Osman O. K. and **Abdel-Fadeel W. A.** "An experimental investigation of temperature distribution in different urban locations in Aswan, Egypt of hot and dry climate" *International Journal of Computational Water, Energy, and Environmental Engineering (CWEEE)*, Vol. 2, No. 2, pp. 69-75, April 2013.
http://file.scirp.org/Html/5-2570028_30597.htm
- 13- **Abdel-Fadeel W. A.** "Turbulent free jet, particle-laden flows, experimental and theoretical investigation" *Scholar's Press*, July 2013.
<https://www.scholars-press.com/catalog/details//store/gb/book/978-3-639-51606-7/turbulent-free-jet,-particle-laden-flows?locale=gb>

- 14- **Abdel-Fadeel W. A.** and Attalla M. “Experimental study on the palm fiber using as a direct evaporative cooler pad” International Journal of Mechanical & Mechatronics Engineering (IJMME//IJENS), Vol. 14, No. 4, pp 14-19, August 2014.
http://www.ijens.org/Vol_14_I_04/143604-7575-IJMME-IJENS.pdf
- 15- Attalla M., Sadek S. and **Abdel-Fadeel W. A.** “Adsorption characteristics and heat of adsorption measurements of R-134A on granular activated carbon” International Journal of Air-Conditioning and Refrigeration, Vol. 22, No. 03, pp. 1450014, September 2014.
<http://www.worldscientific.com/doi/abs/10.1142/S201013251450014X?src=recsys>
- 16- Qenawy M., Abdelhady S., **Abdel-Fadeel W. A.** and Shaban M. “Analytical Study of a Modified PS10 in Aswan” International Journal of Scientific & Engineering Research, Vol. 5, No. 9, pp. 976-983, September 2014.
<http://www.ijser.org/onlineResearchPaperViewer.aspx?Analytical-Study-of-a-Modified-PS10-in-Aswan.pdf>
- 17- Mekhail, T. A., **Abdel-Fadeel, W. A.**, Elmagid, W.M. " Experimental and CFD of Designed Small Wind Turbine " International Journal of Scientific & Engineering Research, Vol. 6, No. 1, pp. 59-68, January 2015.
https://www.researchgate.net/publication/328465298_Experimental_and_CFD_of_Designed_Small_Wind_Turbine
- 18- Hemida, M., **Abdel-Fadeel, W. A.**, Ramadan, A., Aissa, W. A. "Numerical Investigation of Hydrokinetic Savonius Rotor with Two Shielding Plates" International Journal of Applications of Modeling and Simulation, Vol. 3, No. 2, pp. 59-68, April 2019.
http://arqjipubl.com/ojs/index.php/AMS_Journal/article/view/65
- 19- Abdul-Mageed M. Shamroukh, S. A. Salman, William Berends, **W. A. Abdel-Fadeel**, and G. T. Abdel-Jaber "Energy Saving in Hall–Hérout Cell by Optimization of Anode Assembly Design" Light Metals 2020, pp. 1267-1277, Conference paper, January 2020.
https://link.springer.com/content/pdf/10.1007%2F978-3-030-36408-3_174.pdf
- 20- Ramadan, A., Hemida, M., **Abdel-Fadeel, W. A.**, Aissa, W. A., Mohamed, M. H "Comprehensive Experimental and Numerical Assessment of a Drag Turbine for River Hydrokinetic Energy Conversion" Ocean Engineering 221(108587), February 2021.

Thesis's Supervision:

- 1- M. Sc. Thesis “An experimental analysis of energy recovery for humidity control in an air conditioning system”, Faculty of Energy Engineering, Aswan University, 2010.

- 2- M. Sc. Thesis “Numerical study and experimental performance measurement of wind turbine” Faculty of Energy Engineering, Aswan University, 2015.
- 3- M. Sc. Thesis “Parametric study of a single basin solar still” Faculty of Energy Engineering, Aswan University, 2015.
- 4- M. Sc. Thesis “Analytical and experimental study of optimum thermal energy storage systems in solar plants” Faculty of Energy Engineering, Aswan University, 2016.
- 5- M. Sc. Thesis “Numerical Study of the Flow in Stator-Rotor of Francis Turbine” Faculty of Energy Engineering, Aswan University, 2019.
- 6- M. Sc. Thesis “Analysis of Hydrokinetic Turbine Used for Power Generation at River” Faculty of Energy Engineering, Aswan University, 2019.
- 7- M. Sc. Thesis “Enhancement of Anode Assembly to Decrease Voltage Drop in Aluminium Reduction Cell” Faculty of Energy Engineering, Aswan University, 2021.