

*Résumé*

**Eyad Radwan, B.Eng., M.Sc., PhD.**

Gender: Male

Marital Status: Married Citizenship: Jordanian

Address: Amman-Jordan

Email: [eyad.radwan@yahoo.com](mailto:eyad.radwan@yahoo.com) ;

*Qualifications*

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**Bachelor's Degree** Nov 1996

Jordan University of Science & Technology, Irbid Jordan

Electrical Engineering (Power and Machines)

**Master's Degree** Nov 1998

University Putra Malaysia, Serdang Selangor Malaysia

Electrical & Electronic Engineering

**Doctorate** Sept 2004

University Putra Malaysia, Serdang Selangor Malaysia

Electrical & Electronic Engineering

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*Academic Experience*

**Teaching**

Advanced Control Systems, Automatic Control Systems, Digital (Computer) Control systems, Advanced Electric Machines, Electric Drives, Power Electronics, Operation and Control of Power System, and Intelligent Control.

**Applied Science Private University, Amman-Jordan**

2020-Now Professor: Electrical Engineering Dept. (Power & Control)

2012-2020 Associate Professor: Electrical & Computer Engineering Department

**UCSI University, Cheras Kuala Lumpur Malaysia**

2005-2009 Associate Professor: Electrical & Electronic Engineering

2002-2005 Senior lecturer: Electrical & Electronic Engineering

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### ***Administrative Experience***

#### **Applied Science Private University, Amman-Jordan**

2021-Now                      President's Assistant: International Relations & Marketing  
2021-Now                      Member: Strategic Planning Committee  
2019-2022                      Chair: World University Rankings Committee (QS & THE)

#### **UCSI University, Marang Terengganu Malaysia**

2009-2011                      Chief Operating Officer: Terengganu Campus

#### **UCSI University, Cheras Kuala Lumpur Malaysia**

2007-2009                      Dean: Faculty of Engineering Architecture & Built Environment  
2005-2007                      Head: School of Engineering

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### ***Professional Activities and Appointments***

- (1) Member Accreditation Panel, Monash University, Sunway campus, B.Eng. Electrical & Computer Systems, 18-20th May 2011
  - (2) Member Accreditation Panel, University Technology Malaysia, B.Eng. Electrical & Electronics Engineering, 19-21st April 2011
  - (3) Member Accreditation Panel, University Teknikal Malaysia Melaka, B.Eng (Hons) in Electrical (Industrial Power), New Cycle, 21-23rd March 2010
  - (4) Member Accreditation Panel, University Malaysia Perlis, B.Eng (Hons) Electronics & Communication, 19-22nd April 2010
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### ***Reviewer & Editorial Appointments***

- (1) Reviewer. International Journal of Computer and Digital Systems (2020- to date)
  - (2) Reviewer, Jordan Journal of Electrical Engineering (2019-to date)
  - (3) Reviewer, International Journal of Power Electronics (IJPELEC), 2009
  - (4) Reviewer, Power Electronics Applications in Modern Drives' POWERCOIN '08.
  - (5) Reviewer, International Conference on Intelligent & Advanced Systems 2007 (ICIAS2007)
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### ***Publications***

- (1) Emad Awada, Eyad Radwan, Mutasim Nour, "***Robust sliding mode controller for buck DC converter in off-grid applications***". Bulletin of Electrical Engineering & Informatics, Vol. 11, No. 5, Oct. 2022, pp. 2425-2433, DOI: <https://doi.org/10.11591/eei.v11i5.3705>
- (2) Ali M. Baniyounes, Yazeed Yasin Ghadi, Eyad Radwan, Khalid S.Al-Olimat, "***Functions of fuzzy logic based controllers used in smart building***" International Journal of Electrical and Computer

- Engineering (IJECE), Vol. 12, No. 3, June 2022, pp. 3061-3071, DOI: 10.11591/ijece.v12i3.pp3061-3071
- (3) Bashar Aldbaiat, Mutasim Nour, Eyad Radwan, Emad Awada, “**Grid connected PV system with Reactive Power Management and an optimized SRF-PLL using Genetic Algorithm**”. *Energies* 2022, Vol. 15(6), 2177; 16 Mar 2022, <https://doi.org/10.3390/en15062177>
  - (4) Emad Awada, Aws Al-Qaisi, Eyad Radwan, Mutasim Nour, “**Motor Fault Detection using Sound Signature and Wavelet Transform**” *International Journal of Power Electronics and Drive Systems*. Vol. 13, No. 1, March 2022, pp. 2839~2847, DOI: 10.11591/ijpeds.v13.i1.pp2839-2847
  - (5) Emad A. Awada, Amal Abed, Eyad Radwan, Aws Al-Qaisi, Ayman Y. Al-Rawashdeh, “**Energy Conservation as a Sustainable Strategy for Smart Home Buildings in Amman, Jordan with Improving Indoor Built Environment Features and Key Performance**”, *International Journal of Energy Economics and Policy*, Vol. 11 No. 6, Nov. 2021, DOI: <https://doi.org/10.32479/ijeep.11717>
  - (6) Eyad Radwan, Mutasim Nour, Ali Baniyounes, Khalid S. Al-Olimat, “**Design of type-1 servo controller for grid voltage modulated direct-power control of single-phase grid-connected PV inverter**”, *International Journal of Electrical and Computer Engineering (IJECE)* Vol. 11, No. 3, June 2021, pp. 1912~1923.
  - (7) Eyad Radwan, Mutasim Nour, Ali Baniyounes, Khalid S. Al-Olimat, Emad Awada, “**Direct control of active and reactive power for a grid-connected single-phase photovoltaic inverter**”, *International Journal of Power Electronics and Drive System (IJPEDS)*, Vol. 12, No. 1, Mar 2021.
  - (8) Lue Xiong, Mutasim Nour, and Eyad Radwan, “**Harmonic Analysis of Photovoltaic Generation in Distribution Network and Design of Adaptive Filter**”, *International Journal of Computing and Digital Systems*, 2020, Vol. 9, No.1, pp. 77-85. <http://dx.doi.org/10.12785/ijcds/090108>
  - (9) Yakhlef, M., Ghadi, Y., Baniyounes, A., Alnabulsi, M., and Radwan, E. (2019) “**Toward Developing Energy Star Rating Development in Jordan**”, *International Journal of Energy Economics and Policy*, Vol 10, No 3 2020, DOI: <https://doi.org/10.32479/ijeep.7982> .
  - (10) Eyad Radwan, Mutasim Nour, Emad Awada, and Ali Baniyounes, “**Fuzzy Logic Control for Low-voltage Ride-Through Single-Phase Grid-Connected PV Inverter**”, *Energies* 2019, Vol. 12, 4796. <https://doi.org/10.3390/en12244796>
  - (11) Eyad Radwan, Khalil Salih, Emad Awada, and Mutasim Nour, “**Modified Phase Locked Loop for Grid Connected Single Phase Inverter**” *International Journal of Electrical & Computer Engineering*, Vol. 9, No.5, Oct 2019, pp. 3934-3943. <http://doi.org/10.11591/ijece.v9i5>.
  - (12) Awada, E., Alomari, M., & Radwan, E., “**Wavelet Estimation of THD Based on Hilbert Transform Extraction**”, *International Journal of Applied Engineering Research*, Vol. 11, Num. 9, 2016, pp. 6451-6456.
  - (13) Mutasim Nour, New Yen Ee, Eyad Radwan, “**Sensorless Speed and Position Control of Permanent Magnet Synchronous Motors Using Hybrid High Frequency Signal Injection Method**”. *Proceedings of the Third International Conference on Modeling, Simulation and Applied Optimization*, January 20-22 2009, Sharjah, U.A.E.

- (14) Mutasim Nour, New Yen Ee and Eyad Radwan, "**Improvements on the High Frequency Signal Injection Method for Permanent Magnet Synchronous Motors and its Application in the Hybrid Drive Position Control**". 2nd IEEE International Conference on Power and Energy (PECon 08), December 1-3, 2008, Johor Baharu, Malaysia.
- (15) Mutasim Nour, Ishak Aris, Norman Mariun, Senan Mahmoud, and Eyad Radwan, "**Adaptive Fuzzy PI Speed Controller Gains for Permanent Magnet Synchronous Motor**". World Engineering Congress 2007, WEC2007, pp. 24-31, Penang, Malaysia, 5-9 August 2007.
- (16) E. Radwan, N. Mariun, I. Aris, S. M. Bash, and A. H. Yatim, "**IRFOC induction motor with rotor time constant estimation modelling and simulation**", COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, UK, pp.1093-1119, Vol. 24 No. 4, 2005.
- (17) E. Radwan, N. Mariun, S. Mahmod, I. Aris, A. H. Yatim, "**Rotor Time Constant Estimation for IRFO induction motor**" Journal of Electrical Engineering, JEE, article 12 No.2, Vol. 4, 2004.
- (18) E. Radwan, N. Mariun, A. H. Yatim, S. M. Bash, and I. Aris, "**Modelling of Induction Motor IRFOC with Online Estimation of Rotor Time Constant Using Simulink**", Mahanakorn Engineering Transactions, Vol. 6, No. 1(14), Jan/June 2003.
- (19) NB Mariun, EM Radwan, M Ahmad, IB Aris, M. Ahmad, "**Switched Mode Pulse Width Modulated DC-to-DC Converter for Electric Vehicle Application**" Elekrika, Journal of Electrical Engineering, Vol.2, No. 2, Sept. 1999.
- (20) Eyad M Radwan, Norman Mariun, Mukhtar Ahmad, and Ishak Aris, "**A DC-to-DC Converter Using Parallel Insulating Gate Bipolar Transistors for Electric Vehicle Application**", World Engineering Congress 1999/ Sheraton Subang Jaya, Malaysia.

Other periodicals (in Engineering Education)

- (21) E. Radwan, "**Electrical Engineering**", DoctorJob, Definitive Guide to Finding the right Course and Career, GTI Specialist publisher Malaysia, Issue No. 7, June 2005, pp. 26-27.

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### **Seminars, Trainings & Workshops**

- (1) QS Higher Ed Summit: Middle East & Africa 2022. Innovation Enabling Environment: Redefining Education in the Middle East and Africa. 1-3<sup>rd</sup> March 2022.
- (2) Instructional Design for E-Learning, 5 hours course taught by Marina Arshavskiy, on Udemy. 7<sup>th</sup> December 2021.
- (3) Strategic Planning & Risk Management, by Center for Studies & Consultancy, Applied Science Private University, Amman-Jordan, 28<sup>th</sup> February- 4<sup>th</sup> March 2021.
- (4) Faculty Development Training (Teaching & Learning), by Faculty Development Center, Applied Science Private University, Amman-Jordan, 2<sup>nd</sup>-4<sup>th</sup> October 2012.
- (5) Two-day Blue Ocean Strategy Workshop, by Prof Kim Chan, Toronto, Canada, 26<sup>th</sup> & 27<sup>th</sup> February 2009.

- (6) New Literacy: Emerging Technologies for Learning, by the Extended Education, University of Manitoba, Canada 15th September- 6th December 2008 (12 weeks).
  - (7) Two-day Blue Ocean Strategy Workshop, by Luciano Pezzota, BOS practitioner 22<sup>nd</sup> & 23<sup>rd</sup> October 2008.
  - (8) Half-day seminar on Accreditation expectations for Washington Accord 2008, by the EAC & Representatives from Washington Accord, 30th March 2008.
  - (9) Regional Conference on Quality in Higher Education, by the Quality Assurance Management Unit, University Malaya, 10<sup>th</sup>-11<sup>th</sup> December 2007.
  - (10) Two-day Workshop on Accreditation of Engineering Programmes, Seri Pacific Hotel, K.L. Malaysia, by, the Engineering Accreditation Council (EAC), 28<sup>th</sup>-30<sup>th</sup> January 2007.
  - (11) Two-day Workshop on “Engineering Programmes Accreditation Manual 3rd edition” by, the Board of Engineers Malaysia, 4-6<sup>th</sup> March, 2005.
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### ***Skills***

#### *Computer and IT Skills*

I have a strong track record in all functions relating to knowledge of MATLAB/Simulink/Powersim, Assembly Language for PIC Microcontrollers, and Ladder programming and Do-More designer for PLCs.

#### *Interpersonal Skills*

I am a methodical, organised person who can lead and come up with new ideas and solutions. I possess excellent communication skills in English and Arabic. I can cope under pressure with any problem that occurs in the area for which I am responsible. I enjoy meeting people and working with others as a leader or a team member.

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### ***Professional Memberships***

**Panel Member** (Jan 2010 to 2011)

Engineering Accreditation Council, Malaysia

**Member** (Dec 1996)

Board of Engineers Jordan, Electrical Engineering Chapter

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### ***Recognitions***

**Certificate of Appreciation** (Jul 1999)

Certificate of Appreciation for excellence in services rendered in organizing the University's 12th Convocation.

**Certificate of Recognition** (Sep 2003)

Certificate of appreciation awarded for contribution to the aquatic environment (by Malaysian

Reef Conservation, MARC)

**Certificate of Recognition** (Sep 2007)

Certificate of Appreciation for the contribution to the aquatic environment. Redang Island (Malaysia) clean up day, awarded by Project AWARE (Aquatic World Awareness, Responsibility and Education).

**Long Service Award** (Jun 2009)

Long Service Award in recognition of my services and contribution to UCSI University from 1999 to 2009.

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***Volunteering Work***

**Participant** (Sep 2003 to Sep 2003)

Malaysia Reef Conservation (MARC)  
Terengganu Malaysia

**Participant** (Sep 2007 to Sep 2007)

AWARE (Aquatic World Awareness, Responsibility and Education)  
Terengganu Malaysia

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***References***

Available upon request