

CURRICULUM VITAE

PERSONAL DETAILS:-		
Full name	Zeyad Assi Obaid Al-Obaidi	
Nationality	Iraqi	
Language	English: Working, Studying, and Research Language	
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	E-Mails: zeyad.a.obaid@gmail.com zeyad.a.obaid@IEEE.org	
Postal Address	College of Engineering, Diyala University, Baqubah, Diyala, Iraq.	
Academic Qualifications	<p>Ph.D. in Electrical Engineering Institute of Energy, School of Engineering, Cardiff University, UK, June 2018.</p> <p>Master Degree in Control and Automation Engineering University Putra Malaysia, Selangor, Malaysia. The medium of Instruction – English, May 2008.</p> <p>Bachelor Degree in Control & Systems Engineering University of Technology, Baghdad, Iraq. The medium of Instruction – English, October 2006.</p> <p>Professional Development Diploma Awarded by Skills and Development Department, Cardiff Students Union, Cardiff University, June 2017.</p>	
Professional Affiliations/Memberships	IEEE (Institute of Electrical and Electronics Engineers). IEEE Power & Energy Society. University and College Union, UK. Iraqi Engineers Association, Iraq.	

Positions/Working Experiences

<i>Nov. 2012 – Jan. 2014</i>	Coordinator Computer and Software Engineering Department, College of Engineering Diyala University, Iraq.
<i>Nov. 2012 – Jan. 2014</i>	Member of the Examination Committee Computer and Software Engineering Department, College of Engineering Diyala University, Iraq.
<i>Nov. 2012 – Jan. 2014</i>	Member of the Scientific Committee Computer and Software Engineering Department, College of

	Engineering Diyala University, Iraq.
<i>Feb. 2007 – May 2008</i>	Personnel Manager Ezdan Real Estate Company (International Constructions and Trading Company), Doha, Qatar.

Academic Teaching, Instructor, Supervision, and other Academic duties

<i>June 2018- Present</i>	Lecturer Department of Electrical Power Engineering and Electrical Machines
<i>Oct. 2015 – Dec 2017</i>	Examination scripts checking and Invigilating For undergraduate and postgraduate studies during the Ph.D. study at School of Engineering, Cardiff University, UK.
<i>Oct. 2010 – Feb. 2014</i>	Lecturer and Students Supervisor Computer and Software Engineering Department, College of Engineering Diyala University, Iraq. Teaching Subjects: Digital Signal Processing, Computer system architecture, Basics of Electrical Engineering, and Artificial Intelligent. Also, a supervision of more than 10 Final year projects.
May 2013	Coordinator The National Communication Seminar in Iraq, College of Engineering, Diyala University, Diyala, Iraq.
<i>Sept. 2009 – May 2010</i>	Teaching Assistant Electrical and Electronics Department, Faculty of Engineering, University Putra Malaysia.
<i>Jan. 2007 – May 2008</i>	Instructor/Supervisor Developments program for Payroll Server, Ezdan Real Estate Company (International Constructions and Trading Company), Doha, Qatar.
May 2013	Coordinator The National Communication Seminar in Iraq, College of Engineering, Diyala University, Diyala, Iraq.

Attending International Conferences

25-30 September 2017	IEEE Power & Energy Society, Innovative Smart Grid Technologies Conference (ISGT Europe 2017) Torino, Italy.
17-20 July 2017	IEEE Power & Energy Society General Meeting Grand Sheraton Chicago, Chicago, USA.
27-29 June 2016	The 7th ENGIN School Research Conference Cardiff School of Engineering, Cardiff, UK.
1-4 September 2015	50th International Universities Power Engineering Conference (UPEC) Staffordshire University, Staffordshire, UK.
18-20 June 2015	The 6th ENGIN School Research Conference Cardiff School of Engineering, Cardiff, UK.

19 March 2009	NI Graphical System Design Summit, A LabVIEW and Data Acquisition Technical Conference National Instruments, Selangor, Malaysia.
11-13 October 2009	International Conference on MAN-MACHINE SYSTEMS Penang, Malaysia.
16-18 Nov. 2009	IEEE Student Conference on Research and Development (SCORED 2009) University Putra Malaysia, Serdang, Malaysia.
16-17 December 2008	3rd International Conference on Postgraduate Education Penang, Malaysia.
2-3 June 2009	The 2nd International Conference on Control, Instrumentation and Mechatronic Engineering Malacca, Malaysia.

Research and Professional Courses/Certificates

<i>May 2017</i>	Research Methods 3: The Thesis and the Viva Course at School of Engineering, Cardiff University, UK.
<i>16 Jan. 2017</i>	Technological Tools for Teaching Course at Doctoral Academy, Cardiff University, UK.
<i>17 Jan. 2017</i>	Classroom Management Course at University and College Union (UCU), Cardiff University, UK.
<i>26 Jan. 2017</i>	Organizing a Conference Course at Doctoral Academy, Cardiff University, UK.
<i>31 Jan. 2017</i>	Finishing Your PhD: Domain: B2 Self-management Course at Doctoral Academy, Cardiff University, UK.
<i>2016/2017</i>	Certificate of Professional Development (CPD) in Communications Cardiff Student Union, Cardiff University, UK. Contains: Listening and Awareness, Practical Presentations, Negotiation Skills, Customer Communication Skills, and Speaking and Presenting
January 2016	Assessing Student learning in the Sciences Course at School of Engineering, Cardiff University, UK.
June 2015	Recognition as a Teacher in Higher Education University Graduate College, Cardiff University, UK.
April 2015	Demonstrating/Laboratory Based teaching in the Sciences University Graduate College, Cardiff University, UK.
2014/2015	Certificate of Professional Development (CPD) in Leadership Cardiff Student Union, Cardiff University, UK. Contains: Leadership Styles, Leadership in Difficult Situations, Coaching Skills, Assertiveness for Leaders, and Team Briefings (e-learning format).
2015	Research Methods 1: Literature review and Research Methods 2: Preparing Conference Papers Courses at School of Engineering, Cardiff University, UK.
2015	Risk Assessment Course

	School of Engineering, Cardiff University, UK.
July-September 2014	Pre-sessional English Course Cardiff, University, UK.
March- June 2014	Upper-Intermediate English language and IELTS preparation Courses at Celtic English Academy, Cardiff, UK.
October- December 2010	Teaching Method Course Diyala University, Iraq.

Technical Workshops/Meetings, Seminars/Sessions, and Webinars

19 July 2017	Challenges, Opportunities, and Approaches for Integrating Demand Response in Markets and Distribution Systems Panel Session at the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA.
19 July 2017	Working Group on Demand Response At the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA.
18 July 2017	PES Smart Buildings, Loads and Costumer Systems Technical Committee Meeting At the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA.
27 September 2016	System Operability Framework 2016 Post-assessment update Webinar by National Grid (Power System Operator), UK.
21 July 2016	System Operability Framework 2016 Mid-assessment update Webinar by National Grid (Power System Operator), UK.
19 July 2016	National Grid Future Energy Scenarios', an overview of electricity supply from National Grid's 2016 Future Energy Scenarios Webinar by National Grid (Power System Operator), UK.
6 July 2016	Technical Visit and Seminar National Grid Control Centre, Berkshire, UK.
24 May 2016	System Operability Framework 2016 Pre-assessment update Webinar by National Grid (Power System Operator), UK.
July 2015	Technical Visit and Seminar Alstom Grid Site, Bedfordshire, UK.
March 2013	Presenting a Seminar entitled: High-Speed Technology Computer and Software Engineering Department, College of Engineering, Diyala University, Iraq,
11 February 2009	LabVIEW FPGA and Compact RIO Hands-On Workshop National Instruments, Kuala Lumpur, Malaysia.
16 April 2009	Multicore Programming with LabVIEW Hands-On Workshop National Instruments, Selangor, Malaysia.
25-26 April 2009	Publishing for Postgraduates' Workshop University Putra Malaysia, Malaysia.
26 May 2009	Solving Sound and Vibration Applications Seminar National Instruments, Hotel Armada, Malaysia.
29 May 2009	Ethics and Legal Issues in Journal Publications workshop University Putra Malaysia, Malaysia.

18 June 2009	HMI and Programmable Automation Controllers (PAC) Programming Hands-On Seminar National Instruments Office, Malaysia.
7 July 2009	Introduction to LabVIEW and Fundamentals in Data Acquisition (DAQ) with Compact DAQ Hands-On Workshop National Instruments Office, Petaling Jaya, Selangor 46300, Malaysia.
8-9 August 2009	Effective Writing workshop University Putra Malaysia, Malaysia.
15-16 August 2009	The VIVA Workshop University Putra Malaysia, Malaysia.
18 August 2009	LabVIEW 8.6 Hands-On Workshop National Instruments Office, Malaysia.
27 August 2009	Enabling Technologies with Graphical System Design Summit National Instruments, Hilton hotel, Malaysia.

Referees

- Dr. Liana Cipcigan, *Reader*
PhD Supervisor, Institute of Energy, School of Engineering, Cardiff University, Cardiff, UK.
Email: CipciganLM@cardiff.ac.uk
- Dr. M. H. Marhaban, *Professor*
Master Thesis Supervisor, Electrical and Electronics Engineering Department, Faculty of Engineering, University Putra Malaysia,
E-mail: hamiruce@eng.upm.edu.my

List of Publications

- [1] **Z. A. Obaid**, L. M. Cipcigan, N. Jenkins, S. S. Sami, and M. T. Muhssin, ' [Control of a Population of Battery Energy Storage Systems for Frequency Response](#) ', Journal paper Progressing.
- [2] **Zeyad Assi Obaid**, M. T. Muhssin, and L. M. Cipcigan, ' [A Model Reference -based Adaptive PSS4B Stabilizer for the Multi-Machines Power System](#) ', Journal paper Progressing.
- [3] **Zeyad Assi Obaid**, L. M. Cipcigan, and M. T. Muhssin, ' [Frequency Control of Future Power Systems: Reviewing and Evaluating the Challenges and New Control Methods](#) ', Springer Journal of Modern Power Systems and Clean Energy, 28 August 2018.
- [4] M. T. Muhssin, L. M. Cipcigan, N. Jenkins, S. Slater, M. Cheng, and **Z. A. Obaid**, ' [Dynamic Frequency Response from Controlled Domestic Heat Pumps](#) ', IEEE Transactions on Power Systems, Vol. PP, Issue: 99.
- [5] M. T. Muhssin, L. M. Cipcigan, N. Jenkins, S. S. Sami and **Z. A. Obaid**, ' [Potential of Aggregated Load Control for the Stabilization of the Grid Frequency](#) ', Journal of Applied Energy, Vol. 220, 15 June 2018, P. 643–656.
- [6] M. T. Muhssin, L. M. Cipcigan, N. Jenkins, M. Cheng, and **Z. A. Obaid**, ' [Potential of a Population of Domestic Heat Pumps to Provide Balancing Service](#) ', Journal Tehnički vjesnik/Technical Gazette, vol. 25, pp. 709-717, 2018.
- [7] **Zeyad Assi Obaid**, L.M. Cipcigan, Mazin T. Muhssin, and Saif Sabah Sami, ' [Development of a Water Heater Population Control for the Demand-side Frequency Control](#) ', IEEE PES Innovative Smart Grid Technologies, Europe (ISGT Europe), 26-29 September 2017, Turin, Italy.
- [8] **Zeyad Assi Obaid**, L.M. Cipcigan, and Mazin T. Muhssin, ' [Power System Oscillations and Control: Classifications and PSSs' Design Methods: A review](#) ', Elsevier Renewable & Sustainable Energy Reviews, Vol. 79, P: 839–849, 2017.

- [9] **Zeyad Assi Obaid**, L.M. Cipcigan, and Mazin T. Muhssin, '[Design of a Hybrid Fuzzy/Markov Chain-based Hierarchical Demand-side Frequency Control](#)', the 2017 IEEE Power and Energy Society General Meeting, Chicago, USA, 17-20 July 2017.
- [10] Mazin T Muhssin, Liana M Cipcigan, **Zeyad A. Obaid** and Wissam F AL-Ansari, '[A novel adaptive deadbeat-based control for load frequency control of low inertia system in interconnected zones north and south of Scotland](#)', Elsevier International Journal of Electrical Power & Energy Systems, Vol. 89, P: 52-61, 2017.
- [11] Mazin T. Muhssin, Liana M. Cipcigan, Nick Jenkins, , and **Zeyad A. Obaid**, '[Modelling of a population of Heat Pumps as a Source of load in the Great Britain power system](#)', IEEE International Conference on Smart Systems and Technologies (SST), Croatia, 12-14 Oct. 2016.
- [12] **Zeyad Assi Obaid**, L.M. Cipcigan, and Mazin T. Muhssin, '[Fuzzy Hierarchical Approach-Based Optimal Frequency Control in the Great Britain Power System](#)', Elsevier Electric Power Systems Research, Volume 141, December 2016, Pages 529–537.
- [13] **Zeyad Assi Obaid**, '[Investigating the effect of the Future Inertia Reduction on the Whole Stability of the Multi-Machines Great Britain's Power System](#)', The Proceedings of the ENGIN School Research Conference, 27-29 June 2015, Cardiff School of Engineering, UK.
- [14] Muhssin, Mazin T.; Cipcigan, L.M.; and **Zeyad Assi Obaid**, '[Small Microgrid Stability and Performance Analysis in Isolated Island](#)', IEEE 50th International Universities Power Engineering Conference (UPEC), Staffordshire University, UK, 1-4 Sept 2015.
- [15] **Zeyad Assi Obaid**, L. Cipcigan, and Mazin T. Muhssin, '[Analysis of the Great Britain's Power System with Electric Vehicles and Storage Systems](#)' IEEE 18th International Conference on Intelligent System Application to Power Systems (ISAP), 11-16 Sept. 2015, Porto, Portugal.
- [16] Mohammad S. Saleh, **Zeyad Assi Obaid** and Zuhair S. Al-Sagar, '[Design And Implementation Of A Remote Sensor-Based Access Control System Using PIC-micro Controller](#)', Diyala Journal of Engineering, Second Engineering Scientific Conference College of Engineering –University of Diyala 16-17 December. 2015, pp. 441-452.
- [17] **Zeyad Assi Obaid**, Saad Abdalmageed Salman and Ibrahim Saadon" [Analysis and Performance Evaluation of the Position Control of an AC Motor using PD-PI-PID Fuzzy Logic Controller](#), British Journal of Mathematics and Computer Science. 4(6), 2014.
- [18] **Zeyad Assi Obaid**, Saad AbulMajeed Salman, Nasri B Sulaiman, M. H. Marhaban, M. N. Hamidon and Hazem I. Ali "[Design of PSO-based Optimal/Tunable PID Fuzzy Logic Controller Using FPGA](#)" chapter 11 of a Book entitled "MATLAB – A Ubiquitous Tool for the Practical Engineer" Published by InTech - Open Access publisher in the fields of Science, Technology and Medicine, October 2011.
- [19] **Zeyad Assi Obaid**, Nasri B Sulaiman, M. H. Marhaban and M. N. Hamidon "[Analysis and Performance Evaluation of PD-like Fuzzy Logic Controller Design Based on Matlab and FPGA](#)" IAENG International Journal of Computer Science, Vol. 37, Issue 2, Pages: 146-155, 13 May 2010.
- [20] **Zeyad Assi Obaid**, Nasri B Sulaiman, M. H. Marhaban and M. N. Hamidon "[Implementation of Multistructure PID-like Fuzzy Logic Controller using Field Programmable Gate Array](#)" IEICE Electronics Express, Vol. 7 No. 3, P:132-137, 10 February 2010.
- [21] **Zeyad Assi Obaid** and Nasri B Sulaiman "[Design of Fuzzy Logic Controller for the Physical Systems on the Reconfigurable FPGA System](#)", Proceeding of the 2nd International Conference on Control, Instrumentation and Mechatronic Engineering, Malacca, Malaysia, 2-3 June 2009, Page(s):30-35.
- [22] **Zeyad Assi Obaid**, Nasri B Sulaiman and M. N. Hamidon "[Design Representation of the Multipurpose Fuzzy Logic Controller using Hardware Description Language](#)" Proceeding of the International Conference on MAN MACHINE SYSTEMS, Penang, Malaysia, 11-13 October 2009, Paper ID: 2B2, Page(s): 1-7.
- [23] **Zeyad Assi Obaid**, Nasri Sulaiman and M. N. Hamidon "[Design of Fuzzy Logic Controller for AC Motor Based on Field Programmable Gate Array](#)" Proceeding of IEEE Student Conference on Research and Development (SCORED 2009), 16-18 Nov. 2009, UPM Serdang, Malaysia, Page(s):487- 490.
- [24] Mohammed Obaid Ali, S. P. Koh, 1K. H. Chong, S.K.Tiong and **Zeyad Assi Obaid** "[Genetic Algorithm Tuning Based PID Controller for Liquid-Level Tank System](#)" Proceeding of the International Conference on MAN MACHINE SYSTEMS, Penang, Malaysia, 11-13 October 2009.
- [25] Muhssin M. T., Ahmed R. K. R., Marhaban M. H., Zaludin Z. A. B., Mohamady S., and **Zeyad Assi Obaid** "[Development of the Propagation Paths and Selection of Modes for Feedforward with Feedback Inclusion](#)"

- [*ANC System by Using State-Space Formulation*](#)", 3rd International Conference on Postgraduate Education, Dec. 2008.
- [26] **Zeyad Assi Obaid**, Nasri B Sulaiman and M. N. Hamidon "[*Developed Method of FPGA-based Fuzzy Logic Controller Design with the Aid of Conventional PID Algorithm*](#)", Australian Journal of Basics and Applied Science, Vol. 3(3), P: 2724-2740, 2009.
- [27] Nasri B Sulaiman, **Zeyad Assi Obaid**, M. H. Marhaban and M. N. Hamidon "[*FPGA-Based Fuzzy Logic: Design and Applications – A Review*](#)" International Journal of Engineering and Technology, Vol. 1, No. 5, p: 491-502, December 2009.
- [28] **Zeyad Assi Obaid**, Nasri B Sulaiman and M. N. Hamidon "[*FPGA-based Implementation of Digital Logic Design using Altera DE2 Board*](#)" International Journal of Computer Science and Network Security, Vol.9 No.8, P: 186-194, July 2009.
- [29] Nasri B Sulaiman, **Zeyad Assi Obaid**, M. H. Marhaban and M. N. Hamidon "[*Design and Implementation of the FPGA-based Systems - A Review*](#)" Australian Journal of Basics and Applied Science, Vol. 3(4): 3575-3596, 2009.
- [30] **Zeyad Assi Obaid**, Nasri B Sulaiman and Mazin T. Muhssin, '[*Design of Fuzzy Logic Controller using FPGA for the Nonlinear Systems*](#)', Proceeding of the 3rd International Conference on Postgraduate Education, Page: 1-10, Penang, Malaysia, 16-17 December 2008.