



University of Salahaddin/
Erbil, Iraq

Curriculum Vitae Questionnaire



Full Name		Assistant Professor Dr. Fadhil Toufick Aula					
Home address		New Zanko Village A68 - Erbil - Iraq					
Work Address		Department of Electrical Engineering/ College of Engineering/ Salahaddin University - Erbil , Iraq					
Marital Status		Married					
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Date of birth		Feb. 1 st , 1970		Place of Birth		Erbil - Kurdistan Region, Iraq	
Secondary School		Kurdistan Preparatory School		Governorate: Erbil - Iraq		Graduation: 1988	
Academic Accomplishments and Awards		Diploma	University	College	Major	Country	Graduation Year
		B.Sc	Salahaddin	Engineering	Electrical	Iraq	1988
		M.Sc	Salahaddin	Engineering	Electrical	Iraq	2002
		PhD	Oklahoma	Engineering	Electrical and Computer	USA	2013
Specialization		Electrical and Computer Engineering					
Interesting		Automation Systems and Renewable Energies					
Academic titles attained		Academic title				Date of attainment	
		Electrical Machines lab Chief Engineering				1993	
		Assistant Lecturer				2002	
		Lecturer				2008	
		Assistant Professor				2017	
Employment		Since 1993			Place : College of Engineering / Salahaddin University - Erbil		
Assignments and posts at Salahaddin University - Erbil							
1. Head of Department of Electrical Engineering				5. Electrical Eng. Consultant in Engineering Consult Bureau			
2. Vice of Headmaster of Electrical Eng. Dept.				6.			
3. Headmaster Assistance of Electrical Eng. Dept.				7.			
4. Chief Supervisor of Computer Lab				8.			
Assignments and Posts at University of Oklahoma							
Teaching assistance, TA, from 2010 to 2013							
Teaching Courses							
Undergraduate Courses (Bachelor of Science)				Graduate Courses (MSc. And PhD))			
1. Control Engineering		3. Numerical Analysis		1. Computer Hardware Design (MSc.)			
2. Renewable Energy and Smart Grids		5. Computer Lab		2. Robust Control (PhD)			
3. Automata and Computation Theories		6. Final Project Supervisor		3. Design of Feedback Control Systems (MSc.)			
4. Digital Design		7. Electrical Distribution and Lighting					
2. Programming C/C++		8. Digital Design Lab					

Supervising Postgraduate Thesis and Dissertation		
Thesis and Dissertation Title	Level	Status
Real Time Estimation of Kalman Filter Parameters using the Genetic Algorithm for Optimum Balancing Controller of Two-Wheel Robotic System	MSc	Completed 2016
Wound Rotor Induction Motor Drive System Harmonic Estimation and Performance Analysis with Distorted Main Source	PhD	In progress
A Novel Approach in the Finite-Time Controller for Speed and Direction Control in the Four-Wheel Drive System	PhD	In progress
Language Proficiency		
Kurdish - <i>First Language</i>		
English - <i>Second Language</i>		
Arabic - <i>Second Language</i>		
Organization Membership		
1-Kurdistan Engineering Union		
2-Iraqi Engineering Union		
3- Eta Kappa Nu, HKN, the National Electrical and Computer Engineering Honor Society - USA		
Training Courses		
Name of course	Date	Location
Computer Applications/Programming	2 Weeks ,April- 2002	Erbil Institute – Erbil/Iraq
Software Applications	6 Weeks , June 2003	College of Science / University of Salahaddin – Erbil/Iraq
Course Internship		
Name of course	Date	Location
Computer Science / SML Language and Principle of Linux System	2 Month , July 2002	College of Science / University of Salahaddin – Erbil/Iraq
Networking System	2 Weeks , July 2003	College of Engineering / University of Salahaddin - Erbil/Iraq
NT Server	2 Weeks , April 2004	College of Engineering / University of Salahaddin - Erbil/Iraq
MATLAB	April, 2010	School of Electrical and Computer Engineering/ University of Oklahoma – Norman, OK/ USA
OPT/CPT workshops	February 23 , 2010	School of Electrical and Computer Engineering/ University of Oklahoma – Norman, OK/ USA
International Teaching Assistance Training	August 8-12, 2010	Learning and Teaching Program, The University of Oklahoma, Norman, OK/ USA
Software Proficiency		
Name of Program	Type	
C++ Program Language	Procedure and Visual	
SML Language	Procedure	
Basic Language	Visual	
MATLAB	Procedure	
MS Office	Database Designing	
Xilinx Software	Computer Logic Design	
QCA	NanoIC Designing	
VHDL	Hardware Designing	
Academic Careers		
Reviewer – IEEE – PES/IEEE Transactions on Sustainable Energy		
Reviewer – Elsevier / Applied Energy		
Master Thesis		
Title	Approval and Published Date	Publisher
Implementation of PC Parallel Port in Overcurrent Relays Testing	2002	University of Salahaddin , Erbil, Iraq

PhD Dissertation		
Title	Approval and Published Date	Publisher
Power Control and Management of The Grid Containing Large-Scale Wind Power Systems	Spring - 2013	The University of Oklahoma, Oklahoma, USA

Published Works: Journals and Conferences	Published	Publishing place	Volume	Date
Interface Implementation of Parallel Port of PC for Testing Overcurrent Relays	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	Vol. 14 , No. 2, 2004	29-6-2002
Using SMS in Mobile Phone for Home Appliances Controlling Through PC Parallel Port Interfacing	Yes	ELECO 2005, 4 th International Conference on Electrical and Electronics Engineering, Bursa, Turkey	ELECO 2005, page 311-315	7 – 11, December , 2005
An Integrated PC System for Smart – Home Control of Appliances Based on Kurdish Speech Recognition	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	Vol. 18, No. 2, 2006	12-6-2006
Implementation of SMS Service in Cellular Phone for Feedback Control System	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	Vol. 20, No. 5, 2008	20-8-2008
Weather Adaptive Renewable Energy Based Self Correctional Dynamic Power System for 2020 and Beyond	Yes	21st International Conference on Systems Engineering, ICSEng 2011, Las Vegas, Nevada, USA, 2011	ICSEng 2011	16-18, August, 2011
Grid Power Optimization Based on Adapting Load Forecasting and Weather Forecasting for System Which Involves Wind Power Systems	Yes	Smart Grid and Renewable Energy, Scientific Research	Vol.3, No. 2, pp. 112-118	May 2012
Power fluctuation reduction methodology for the grid-connected renewable power systems	Yes	Proc. SPIE 8688, Active and Passive Smart Structures and Integrated Systems, 86881W, San Diego, California, 2013	SPIE 8688	April 10, 2013
An Operational Power Management Method for the Grid Containing Renewable Power Systems Utilizing Short-Term Weather and Load Forecasting Data	Yes	Proc. SPIE 8692, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, 86924O, San Diego, California, 2013	SPIE 8692	April 10, 2013
Logic Design of Word-Level 3D, 2-dot QCA NanoICs	Yes	Proc. SPIE 8691, Nanosensors, Biosensors, and Info-Tech Sensors and Systems, 86910F, San Diego, California, 2013	SPIE 8691	April 9, 2013
Fault Detection in Word-Level NanoICs using Vector Boolean Derivatives	Yes	Proc. SPIE 8691, Nanosensors, Biosensors, and Info-Tech Sensors and Systems, 86910E, San Diego, California, 2013	SPIE 8691	April 9, 2013
Load Frequency Control of the Grid-Connected DFIG-Based Wind Energy Conversion System under Varying Wind Speed Condition	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	Vol. 27, No. 1, 2015	5-2-2015
Optimal Control Scheme for Flicker Mitigation in Large-Scale PMSG based Wind Energy Conversion Systems	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	ZJPAS, Vol.28, No. 3, pp 52-62	2016
Real Time Estimation of Kalman Filter Parameters using the Genetic Algorithm for Optimum Balancing Controller of Two-Wheel Robotic System	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	ZJPAS, Vol. 28, No. 2, pp. s539-544	2016
Performance Analysis of WRIM Drive System Operating under Distorted and Unbalanced Supply: A Survey	Yes	Zanko Journal of Pure and Applied Sciences/ Salahaddin University	ZJPAS.32. 6.20.	Dec. 20, 2020

I, Fadhil T. Aula, hereby certify that statements and information in this document are true and correct to the best of my knowledge and belief for this purpose I signed below;

Signature: 

Date: May 25, 2021