Harith Ahmed Mohammed Al-Badrani

PhD. in Electrical Engineering (Power Electronics) Assistant Professor Ninevah University College of Electronic Eng. Dept. of Electronics E-mail: harith.mohammed@uoninevah.edu.iq

PERSONAL Date of Birth: 1981 Address: Mosul-Iraq

EDUCATION and EMPLOYMENT

EDUCATION PhD. 2019, (SiC-VSI with sinusoidal voltages for an enhanced sensorless control of the induction machine) School of Power Electronics and Electrical Drives. University of Siegen. Siegen. Germany.

M.Sc. 2006, (Electrical Engineering) Dept. of Electrical Power Technology Engineering. Northern Technical Collage-Iraq

B.Sc. 2003, (Electrical Engineering) Dept. of Electrical Power Technology Engineering. Northern Technical Collage-Iraq.

Employment History:	March 2022 To Now	Assistant Professor College of Electronic Engineering, Ninevah University, Mosul, Iraq	
	Feb 2019 to March 2022	Lecturer College of Electronic Engineering, University of Mosul. Mosul, Iraq.	
	Jan 2014 to Feb. 2019	M. Sc. Supervisor and Lab. Demonstrator School of Power Electronics and Electrical Drives. University of Siegen. Siegen. Germany	
	Feb 2007 to Jan. 2013	Associate Lecturer College of Electronic Engineering, University of Mosul. Mosul, Iraq.	
	Oct. 2003 to Jul. 2004	Lab. Demonstrator Dept. of Electrical Power Technology Engineering. Northern Technical Collage-Iraq.	

SKILLS

Language – Arabic (mother language) – Germany - English

Computer Skills – C++, Microsoft Office, Matlab / Simulnk, Eagl. **Scholarly Activities** - Reviewer of IEEE – Open Journal of the Industrial Electronic Society. IEEE trans. Transportation, e-Prime Journal, AEEE Journal.

Teaching and	Series		Courses		Level		
Academic Activities	1	Power Electronics			M.Sc.		
	2	Industrial Electronics Electrical Drives			M.Sc		
	3				M.Sc		
	4	Electrical Protection System			B. Sc.		
	5	Electrical Networks			B.Sc.		
	6	C++ programming			B.Sc.		
	7	Computer Science			B.Sc.		
	Supervised on an M Sc thesis in Power Electronics. Supervised on an M Sc theses in Renewable Energy. Supervised on an M Sc theses in Electrical Drive. Supervised on some other M Sc theses in Power Electronics, Renewable Energy an Drive system.						
	External postgraduate examiner.						
University and	#	Committee N	lame	Period	Position		
Departmental	1 Depa	rtmental council		2007-to now	Member		
Community Services	2 Prom	otion committee.		2019 to now	Member		
	3 Test	and exams college cou	ncil	2019-2022	Member		
(Publications)	 Design and simulation of cascaded H-bridge 5-level inverter for grid connection system based on multi-carrier PWM technique HABATY Hadeel S Maaroof IOP Conference Series: Materials Science and Engineering, Volume 1152, 1st SiC-VSI with sinusoidal voltages for an enhanced sensorless control of the induction machine H Al-Badrani, S Feuersänger, M Pacas 2018 IEEE 4th Southern Power Electronics Conference (SPEC), 1-7 Design of new structure of multilevel inverter based on modified absolute sinusoidal PWM technique AA Saleh, RK Antar, HA Al-Badrani International Journal of Power Electronics and Drive Systems 12 (4), 2314 Modeling of 81-Level Inverter Based on a Novel Control Technique AA Harith Al-Badrani, Rakan Khalil Antar Przeglad Elektrotechniczny 				 of the olute		

5- An AC/DC switch mode power supply based on half bridge DC/DC converter for low power applications

H Al-Badrani, YMY Ameen, MNA Kadir

2021 12th International Renewable Energy Congress (IREC), 1-6

6- Flux Observation of Induction Machine Based on the Enhanced Sensorless Voltage Model

H Al-Badrani

IOP Conference Series: Materials Science and Engineering, Volume 1152, 1st ...

7- Design and performance analysis of asymmetric multilevel inverter with reduced switches based on SPWM

HAB Layth S. Salman

International Journal of Power Electronics and Drive Systems (IJPEDS) 14 (1 ...

8- DESIGN AND SIMULATION OF A HIGH-POWER DOUBLE-OUTPUT ISOLATED CUK CONVERTER

MNAK Yasir M. Y. Ameen, Harith al-badrani Eastern-European Journal of Enterprise Technologies 5 (5), 113

9- Development of An Efficient Voltage Regulation Mechanism for Switched Capacitor Converter with Exponential Gain

MNA Kadir, YMY Ameen, H Al-Badrani Eastern-European Journal of Enterprise Technologies 6 (5), 120

10- Development of an efficient voltage regulation mechanism for switched capacitor converter with exponential gain

HAB Mohamed N. Abdulkadir, Yasir M. Y. Ameen Eastern-European Journal of Enterprise Technologies 6 (5), 18-28

11- Study the Effect of Switching Frequency on THD of Multilevel Inverter HAB Laith S. Salman Journal of Modern Computing and Engineering Research (JMCER) 2022, 74-83

12- Mathematical modeling and engineering design of multi-level inverter based on selective harmonic elimination

L Salman, H Al-Badrani Przeglad Elektrotechniczny 11 (2022), 83

13- Enhanced Speed Control of a Drive With Rejection of Periodical Disturbances

H Al-Badrani, M Pacas

IEEE Open Journal of the Industrial Electronics Society 3, 551-560

14- VSI with Sinusoidal Voltages for an Enhanced Sensorless Control of the Induction Machine

H Al-Badrani, S Feuersaenger, G Pacas, Mario (University of Siegen PCIM Europe 2018 - International Exhibition and Conference for Power ...