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Designation		Lecturer							
Department		Electronic Engineering							
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Qualifie	cation	I							
Year	Degree/Certificate	Name of the Institute	/ University Field of study						
Ongoin	g PhD	University of Nebrask	a-Lincoln, NE, USA	In, NE, USA Engineerir					
2018	MS	istan Electrical			Engineering				
2012	BS	BUITEMS. Quetta. Pakistan Electror				c Engineering			
Publications in HEC Recognized journals									
			Name of Journal	National/ International		Publication			
5. NO	little of Paper		Name of Journal			date			
1	Genetic algorithm optimization of heliostat field layout for the design of a central receiver solar thermal power plant		Elsevier - Heliyon	International		November 2023			
2	A Data-Driven Compa Lithium-Ion Battery St Capacity Estimation	Taylor & Francis – Electric Power Components and Systems	Intei	rnational	January 18, 2023				
Paper Presented									
S. No	Title of Paper		Name of Conference	National/ International		Date			
1	Machine Learning-Enabled Power Converter Optimization for Next- Generation Data Centers: A Review		IEEE ECCE 2023 – Nashville, USA	International		Oct 29 – Nov 2, 2023			
2	Learning Predictive Models for Underground Coal Mine Environment Using Sensor Data		IEEE ICE Cube 2021 – Quetta, Pakistan	International		Oct 27-28, 2021			
3	Heliostat Field Layout: An Overview of Modern Trends in Generation,		5 th IEEC 2020 — Karachi,	National		Feb 21-22, 2020			

	Optimization, and Control Strategies			Pakistan				
4	Battery Health Monitoring for Commercialized Electric Vehicle Batteries: Lithium-Ion			IEEE PGSRET 2019 – Istanbul, Turkey	International		Aug 26-27, 2019	
5	A Comparat Inverters an	ive Study of Fa d Their Possibl	ults in Grid-Tied e Solutions	IEEE ICECCE 2019 – Mingora Swat, Pakistan	International		July 24-25, 2019	
6	State of The Issues, Chall	Art Tidal Energenges, and Pos	IEEE PGSRET			Sept 10-12, 2019		
7	A Study of A Inverter Top Devices and	symmetrical N pologies with Le Low THD: A Re	Islamabad, Pakistan	International				
8	Efficiency and Cost Analysis of Power Sources in Impressed Current Cathodic Protection System for Corrosion Prevention in Buried Pipelines of Balochistan, Pakistan			IOP ICAET 2018 – Quetta, Pakistan	International		April 2-3, 2019	
Books A	Authored/ Ed	ited						
S. No	Name of book				Publisher		ISBAN	
1	The Story of Chapter "Ha Solutions, a	Geopolitics an irnessing the Ei nd Generation	Realms – CPEC Policies, C″.	China Study Center, BUITEMS, Quetta		978-969- 23925-0-1		
Work E	xperience							
S. No	From (year)	To (year)	Name of the Inst	titution/ Organizatio	Position he	Position held		
1	Jan 2015	Till Date	BUITEMS, Quetta			Lecturer		
2	Nov 2012	Dec 2012	AH Automation Pvt. Ltd, Islamabad			Assistant Technical Manager		
3	Mar 2013	Apr 2013	PTCL, Lahore		Intern			
4	Aug 2011	Sep 2011	QESCO, Quetta			Intern		
5	Feb 2011	Mar 2011	PTV, Quetta			Intern		
6	Jul 2010	Mar 2011	BUITEMS, Quetta Research			ssistant		
Area of specialization			Industrial Control Systems and Hardware Security					
Research Interest			Power Electronics, Industrial Automation, Industrial Internet of Things, AI, Digital Twin, Hardware Security, and Renewable Energy Technology.					
Future Research Plans			Machine learning-enabled converter optimization for next generation data centers, hardware security of industrial control systems in industry 4.0, digital twins of industrial internet of things for program integrity and attestation, and energy harvesting for intermittent computing systems.					
HEC Approved supervisor			No					
If Yes, provide HEC URL			Not Applicable					
Research grants/ Projects			7 IGNITE ICT R&D Undergraduate student research grants					

Awards and Memberships

- Fulbright PhD Scholarship 2021
- Member IEEE
- Member IEEE Power and Energy Society
- Member Power America
- Registered Engineer PEC

Bio

Engr. Syed Owais Athar was born in Quetta, Pakistan. He received a B.S. in electronic engineering and an M.S. with distinction in electrical engineering from Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS), Quetta, Pakistan in 2012 and 2018, respectively. He is currently enrolled as a Fulbright Ph.D. Scholar at the University of Nebraska-Lincoln, Lincoln, Nebraska, USA.

Engr. Syed between 2012 and 2013 served as an Assistant Technical Manager in AH Automation (Pvt.) Ltd., Islamabad. Later in 2015, he joined the Balochistan University of Information Technology, Engineering, and Management Sciences, Quetta as a Lecturer in the Department of Electronic Engineering and is currently on study leave to pursue higher studies. He supervised 9 master thesis students and 31 undergraduate final-year projects out of which 7 received IGNITE ICT R&D research grants.

His research interests are machine learning-based power electronic converter design, real-time control, and optimization for various applications; redundant and optimal power architectures for the next-generation data centers enabling cloud computing, automation of industrial control systems and assembly lines; applications of power and industrial electronics; IOT-enabled next-generation smart industries (Industry 4.0); smart renewable energy technologies; energy harvesting for intermittent computing systems; intermittent computing systems; digital twins, and hardware security of programmable logic controllers for industrial control system and cyber-physical systems.

He is a Registered Engineer at the Pakistan Engineering Council (PEC). He is a member of multiple international organizations and accrediting bodies like the Institute of Electrical and Electronics Engineers (IEEE), IEEE Power and Energy Society, and Power America. He is the founder and President of the Society of Electronic Engineering (SEEB) BUITEMS and the advisor of the IEEE Power and Energy Society BUITEMS Branch Chapter. He is a Microsoft Certified Educator and certified Microsoft Office Expert.