

Curriculum Vitae

Dr. Zuhair Alaas	
<p style="text-align: center;">Academic Rank Assistant Professor</p>	
<p style="text-align: center;">Education</p> <ul style="list-style-type: none">• PhD, Electrical Engineering, Wayne State University, US, (2012-2017)• Master of Science, Electrical Engineering, University of Newcastle upon Tyne, UK, (2006-2007).• Bachelor of Science, Electrical Engineering, King Fahd University of Petroleum and Minerals, KSA, (1996-2001).	
<p style="text-align: center;">Academic Experience</p> <ul style="list-style-type: none">• Jazan University, College of Engineering, Electrical Engineering Department, KSA, Assistant Professor, (2018 - now), Full time.• Jazan University, College of Engineering, Electrical Engineering Department, KSA, Lecturer, (2011 - 2012), Full time.	
<p style="text-align: center;">Non-academic Experience</p> <ul style="list-style-type: none">• KFUPM, Power Analyses and Protection System, Saudi Arabia, Project Leader, 2001• SCECO Company, Coop Program, 2000-2001	
<p style="text-align: center;">Certifications or Professional Registrations</p> <ul style="list-style-type: none">• Certificate of Transformer Training, Hyundai Heavy Industries co., Ltd., Ulsan Korea, 2011.• Certificated Assessment and Workplace Training (BSZ40198), Holmesglen Institute of TAFE, Australia, 2004.	
<p style="text-align: center;">Current Membership in Professional Organizations</p> <ul style="list-style-type: none">• Member of the IEEE, KSA.• Member of IEEE Power and Energy Society (PES), KSA.	
<p style="text-align: center;">Honors and Awards</p> <ul style="list-style-type: none">• Received a scholarship from Jazan University to pursue a Ph.D. degree (2012-2017).• Received Golden Key International Honour Society, KSA, 2016	
<p style="text-align: center;">Recent Publications and Presentations</p> <ol style="list-style-type: none">1. "A New Hierarchal Cascaded Multilevel Inverter with Level Doubling Cell", Zuhair Alaas, Jazan University Journal, 2021,2. "Hierarchical Cascaded Multilevel Converter for Continuous Uniform SOC Management of Large-Scale Battery Storage Systems," Zuhair Alaas, J. Chen, and C. Wang, IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020.3. "Parameters Optimization of Avr And Multi-Band Pss Via A Genetic Algorithm Technique So As To Improve The Integration Rate Of Wind Farm Into The Electricity Grid," HHA Bilel Dhouib , Zuhair Alaas, Amor Kahouli, Ponte Academic Journal 75 (12) 2019.4. "Improved cascaded multilevel battery inverters with phase-to-phase SOC balancing capability", Z. Alaas, Caisheng Wang, Chenguang Jiang, Chen Duan and Jianfei Chen, IEEE Transportation Electrification Conference and Expo (ITEC), Chicago, IL,	

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pp. 323-327, 2017.

5. “A Hierarchal Cascaded Multilevel Converter for uniform SOC battery Management”, **Z. Alaas**, Caisheng Wang, Chenguang Jiang, Chen Duan and Le Yi Wang, IEEE Transportation Electrification Conference and Expo (ITEC), Dearborn, MI, pp. 1-6, 2016.
6. “A new isolated multilevel inverter based on cascaded three-phase converter blocks”, **Z. Alaas** and Caisheng Wang, IEEE Transportation Electrification Conference and Expo (ITEC), Dearborn, MI, pp. 1-6, 2015.

Patent

1. “Method and Apparatus for Uniform Battery System State of Charge Management”, Caisheng Wang, **Zuhair M Alaas**, Jianfei Chen, Provisional Patent US Patent App0 16/312,547, 2020.

Research Accounts

- **Google Scholar:** <https://scholar.google.com/citations?user=FaEL5kUAAAAJ&hl=en>
- **Research Gate:** <https://www.researchgate.net/profile/Zuhair-Alaas>
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=56941835200>

Service Activities

- Chairman of Electrical Engineering Department, College of Engineering, Jazan University, 2018-now.
- Reviewer, Electric Power Components and Systems Journal, until now.
- Reviewer, IEEE Transactions on Smart Grid, until now.
- Panel Session Chair, Pre-Qualification/AI-Namas, National Olympiad for Scientific Creativity, 2012.
- Session Referee, Finalists/ Riyadh, National Olympiad for Scientific Creativity, 2012.

Recent Development Activities

1. Seminar on ABET accreditation requirements, (2 Hr), Monday 2nd September 2019.
2. Workshop on ABET accreditation Standards, (2 Hr), Monday 7th October 2019.
3. Seminar on Rubrics Assessments, (3 Hr), Monday 27th October 2019.
4. Workshop on Graduation projects & Summer training KPIs, (2.5 Hr), Thursday 26th November 2019.
5. Workshop on Preparing Course file, (1.5 Hr), Tuesday 28th November 2019.
6. Workshop on Surveys analysis, (3 Hr), Tuesday 5th December 2019.
7. Seminar on Preparing Self-Study Report, (3 Hr), Tuesday 21st December 2019.
8. Workshop on Exam Template specifications and design, (1.5 Hr), Monday 23th February 2020.
9. Workshop on Exams based Course Learning Outcomes, (2.5 Hr), Monday 24th February 2020.
10. Workshop On the pre Rubric KPIs , (2 Hr), Monday 2nd December 2019.
11. Seminar on Integrated Course design, (3.5 Hr), Tuesday 4th February 2020.
12. Workshop on Program Learning Outcomes Assessment, challenge, and achievement, (3 Hr), Monday 27th January 2020.