CURRICULUM VITAE

Personal Information	
	Sagar S. Alia (Afrah
Name	Saqer S. Alja'Afreh
Adresse	Mutah, Alkarak, Jordan University Street, P.O. Box: (7) Zip Code (61710)
Mobile	00962795808268
E-Mail	Saqer1981@yahoo.com; eng.saqer-jaa@mutah/edu.jo
Date, Place of Birth	21.11.1981, That ras
Matrital Status	Married
Professional Background	
08/11/2015 –Present	Assistant Professor @ Electrical Engineering Dept, Mutah University
	Duties:
	 Teaching undergraduate courses in the field of Electromagnetic; the courses are: Electromagnetic, Fields and Waves, Microwaves,
	Antennas and Wave propagations, Electric Circuits, Singals and
	Systems, Numerical Methods. • Supervision of Master students projects, more of them are on
	antennas design for wireless applications.
16/09/2009 - 06/02/2012	Webesite: <u>www.muah.edu.jo</u>
10/09/2009 - 00/02/2012	Lecturer @ Electrical Engineering Dept, Mutah University Duties:
	Two years experience teaching many courses like, Communication
	Circuits, Electric Circuits Analysis I, Digital Communications, Digital Signal Processing, Microprocessors, Electronics, Electronics II,
	Computer Applications in Electrical Engineering and Telephony
	Engineering.Undergraduate students' projects (especially, projects related to
	Digital Communications) like, "BCH Coded QAM over Fading
	Channels, Simulation of LMS, Equalized QAM, Simulation of FHSS BFSK Scheme, Design of Mobile Detector and Jammer, Real Time
	three Voice FDM SSB channels".
	Webesite: <u>www.muah.edu.jo</u> Telecom Engineer and Project Manager @ Northern Digital Telecom
06/02/2008 - 10/09/2009	(NDT) Subcontractor Telecom Co.
	Duties:
	 Installation Indoor and Outdoor GSM equipments (Huawei) with OMNIAH expansion projects, like Huawei BTS 3012AE, 3012 and
	3900 and BSC.
	 Hhh Installation and Commissioning Mw equipments like NEC V.3, V.4, NEO Pazolink. Hariss and RTN equipments.
	Managing Lebanon Projects for 4 months (Swap Project for MTC
	TOUCH and PTN Expansion Project for ALPHA Operator. Webesite: www.ndt.jo

Academic Qualifications	
02/2012 - 10/2015	Phd. in Electrical Engineering (Wireless Communications) EE Department, University of Liverpool, United Kingdom.
	Thesis: "MIMO Antennas for Mobile Phone Applications."
09/2004 - 02/2007	M.Sc. in Communications Engineering. Electrical Engineering Department, Mutah University, Jordan. Thesis: "Performance Analysis of Reed-Solomon Coded M-QAM over Fading Channels." Over all average: 92.56 %
09/1999 - 02/2004	B.Sc. in Electrical Engineering (Communication Engineering). Electrical Engineering Department, Mutah University, Jordan. Graduation Project: "Simulation Design for DSSS-BPSK Scheme." Over all average: 86.61 %
Honors & Awards	
15/11/2016	Best Non-student paper prize (3rd place) in LAPC2016 Conference (14th-15th November 2016),
08/04/2014	Best PhD students Poster. University of Liverpool, 2014 (1st place):
2000-2007	Top MSc Graduate Student in Electrical Engineering Department. (2007) Top Student in Electrical Engineering Department between 2000-2004
01/09/2004	MSc Scholarship, Mutah University. Emaar Alkarak Foundation. Jordan.
02/2012	PhD Scholarship to Uiversity of Liverpool. Mutah University. Jordan.
Skills & Knowledge	
Knowledge	Microsoft Word, Microsoft Excel, Microsoft PowerPoint
	Programming Languages: Matlab, FORTRAN,. HTML, Asembly.
	RF circuits, antennas design on CST Microwave Studio, HFSS.
	Advanced Design System (ADS)
	Mobil Communication Systems (GSM, CDMA, UMTS, LTE).
Languages	Arabic, mother tongue
	English, fluently in speech and writing
Driving License	Class 3
Grants	
07/2018	Three months guest visit grant from Deutsche Forchungsgeinschaft German Research Foundation (DFG) to Otto-von-Guericke-University Magdeburg. July 2018.
Funded Projects	
01/04/2018	"Introducing Mobile Communications Industry-related in Undergraduate Curriculum (IMMISSU)", Co-funded by the Royal Engineering Academy/ Industry Academia Partnership Programme (IAPP), UK. Project no:(IAPP1R2\. 100035,) April 2018 – Oct 2019.
Courses Q Marshall	
Courses & Workshops	 Proposal Writing Courses for Research Grants (ProGRANT), Organized by DAAD in Lebanon, 1st -5th May, 2019.

Professional Activites	 Engineering Education Systems that are Fit for the Future Conference, The Royal Academy of Engineering, 24-25, September, 2018. Huawei UHF and Mw Presentation presented by Huawei Technologies Company, 8th April 2009, NDT Company, AmmanJordan MOTOROLA GSM Presentation presented by MOTOROLA, Hayat Amman Hotel, 12th December 2008, Amman-Jordan. 5 days Huawei Mobile Communications Training Course presented by Huawei Technologies Company, Between 5th December 2018 to 31 December 2018, Amman-Jordan.
Professional Activites	 Peer reviewer of IEEE Antennas and Wave Propagation Letter (AWPL). Peer reviewer of Jordan Journal of Electrical Engineering (JJEE). Peer reviewer of International Journal of Electronics and Communications (AEU). Peer reviewer of IEEE Transactions on Antennas and Wave Propagation (TAP). Peer reviewer of the 11th Jordan International Electrical and Electrical and Electrical and Electrical Electrical and Electrical Electrical and Electrical Electrical Antennas and Electrical Electrical Antennas Antennas
Academic Apointment 09/2017-09/2019	Electronics Engineering Conference (JIEEEC 2019). Head of Electrical Engineering Department, Mutah University.
Publications	
Journals	 M. H. Alshamaileh, S. S. Alja'afreh and E. Almajali, "A Nona-band, Hybrid Antenna for Metal-rimmed Smartphone Applications", Accepted in IET Microwaves, Antennas and Propagation, July 2019. DOI: 10.1049/iet-map.2019.0110 S. S. Alja'afreh, A. Khafalla and A. Omar, "Universal Antenna with A Small Non-ground Portion for Smartphone Applications", Accepted in International Journal on Communications Antenna and Propagation (IRECAP), 16 July 2019. E. Almajali, D. McNamara, S. S. Alja'afreh, M. S. Sharawi and I. Mabrouk "A Low-Profile Holographic Antenna with Dual- Metasurface and Printed Yagi Feed," International Journal of Electronics and Communications (AEU), vol.111, 2019 L. Xing, Q. Xu and S. S. Alja'afreh "A high Efficiency Wideband Frequency Reconfigurable Water Antenna with A liquid auto- Control System," Accepted in IEEE Antennas and Propagations Magazine, 6 Aug 2019. K. N. Paracha, S. K. Abdul Rahim,H. T Chattha and S. S. Alja'afreh, , "Low-Cost Printed Flexible Antenna by Using Office Printer for Comformal Applications", International Journal of Antennas and Propagation, 2018. A. Al-abadleh, S. S. Alja'afreh, A. Aljaafreh and K. Alawasa , "A RSS- based localization method using HMM-based error correction", Journal of Location Based Services, vol. 12, no. 3-4, pp. 273-285, Nov. 2018.

- S. S. Alja'afreh, "Folded Strip Monopole with SRR for Triple-band Mobile Phone Applications", International Journal on Communications Antenna and Propagation (IRECAP), vol. 7, no. 7, pp. 613-617, 2017.
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- A. Aljaafreh, K.Alawasa, S. S. Alja'afreh, and A. Abadleh, "Fuzzy Inference System for Speed Bumps Detection using Smartphone Accelerometer Sensor", Journal of Telecommunication, Electronic and Computer Engineering (JTEC), vol. 9, no. 2-7, pp. 133-136, 2017.
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- S. S. Alja'afreh, Y. Huang, L. Xing and Q. Xu, "A Novel Approach for Parasitic Decoupling Element Design for MIMO Applications", Jordan Journal of Electrical Engineering (JJEE), vol. 3, no. 1, pp. 1-18, 2017.
- Q. Xu, Y. Huang, L. Xing, C. Song, Z. Tian, S. S. Alja'afreh and M. Stanley "3D Antenna Radiation Pattern Reconstruction in A Reverberation Chamber Using Spherical Wave Decomposition," IEEE Transactions on Antennas and Propagation, vol. 65, no. 4, pp. 1728-1739, April 2017.
- S.S. Alja'afreh "A Folded, Low Profile Multiband Loop Antenna for 4G Smartphone Applications," Jordan Journal of Electrical Engineering (JJEE), vol. 2, no. 4, pp. 270-277, 2016.
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- Q. Xu, Y. Huang, X. Zhu, S. S. Alja'afreh, L. Xing, Z. Tian, "Diversity Gain Measurement in A Reverberation Chamber without Extra Antennas", IEEE Antennas and Wireless Propagation Letters, vol. 14, 2015.

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	 S. S. Alja'afreh, Y. Huang, L. Xing, Q. Xu and X. Zhu, "A Low Profile and Wideband PILA-based Antenna for Handset Diversity Applications", IEEE Antennas and Wireless Propagation Letters, vol. 14, pp. 923-926, 2015.
	 H. Chattha, M. Nasir, Y. Jamal, Y. Huang, S. S. Alja'afreh, "Planar Inverted-E Antenna for Future Generations Applications" Microwave and Optical Technology Letters, vol.56, no. 9, pp.2103- 2107, 2014.
	 L. Xing, Y. Huang, Y. Shen, S. S. Alja'afreh, Q. Xu, R. Alrawashdeh, "Further investigations on Water Antennas", IET Microwaves Antennas and Propagation, vol. 9, no. 8, pp. 735-741, 2014. H. Chattha, M. Nasir, Q. Abbasi, Y. Huang, S. S. Alja'afreh, "Compact Low-Profile Dual-Port Single Wideband Planar Inverted-F MIMO Antenna," IEEE Antennas and Wireless Propagation Letters, vol.12, pp.1673-1675, 2013.
Conferences	
	 S. S. Aljaafreh, M. Alshamaileh, E. Almajali and A. Alabadleh "A New Dual-Element Multimode MIMO Antenna for Metal-Rimmed Smartphone", In Proc International Conference on Aviation and Space Technology - 2019 Advances in Science and Engineering Technology (ASET) International Conferences, March, 2019, United Arab Emirate.
	 E. Almajali, S. S. Aljaafreh, et al "Interpreting Trasmitarrays Far- Field Performance Using Its Near Focal Region Fields", In Proc International Conference on Aviation and Space Technology - 2019 Advances in Science and Engineering Technology (ASET) International Conferences, March, 2019, United Arab Emirate. S. S. Aljaafreh, M. Alshamaileh and E. Almajali "A New Reconfigurable Antenna for Full-band Metal-Rimmed Smartphones' Applications", In Proc ICCSPA'19 Conference, March, 2019, United Arab Emirate.
	• S. S. Alja'afreh, Y. Huang, Q. Xu and L.Xing, "Dual-element antenna system for Hexa-band Smartphone Applications", In Proc LAPC 2017 Conference, November, 2017, United Kingdom.
	 S. S. Alja'afreh, Y. Huang, Q. Xu and L.Xing, "Hexa-band Antenna for Smartphone Applications", In Proc JIEEEC 2017 Conference, May, 2017, Jordan
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•	M. Stanley, Y. Huang, H. Wang, S. S. Alja'afreh, Q. Xu and L. Xing,
	"LTE MIMO Antenna Using Unbroken Metallic Rim and Non
	Resonant CCE Element", In Proc. EuCAP 2016, April, 2016,
	Switzerland.

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- A. A-B. Sajak, Y. Shen, R. Alrawashdeh, L. Xing and S. S. Alja'afreh, "A Comparison of the Effect of Substrate on the Performance of THz Antenna," In Proc. 4th International Conference on Engineering Technology and Techno preneuship (ICE2T) 2014, August, 2014, Malaysia.
- L. Xing, Y. Huang, S. S. Alja'afreh, Q. Xu, M. Kod, C. Song, "Reconfigurable 3D Folded Monopole Antenna Design," In Proc. LAPC 2014 Conference, November, 2014, United Kingdom.
- L. Xing, Y. Huang, Y. Shen, S. S. Alja'afreh, Q. Xu, R. Alrawashdeh, "Broadband U-Shaped Water Antenna for DVB-H Applications," In Proc. IEEE Antennas and Propagation Society International Symposium (APSURSI), July, 2014, USA.
- H. T. Chattha, M. Nasir, Y. Jamal, S. S. Alja'afreh, Y. Huang and A. Sharif, "MIMO Antenna using Modified Planar Inverted-F Antennas", In Proc. IEEE Antennas and Propagation Society International Symposium (APSURSI), July, 2014, USA.
- H. T. Chattha, M. Nasir, S. S. Alja'afreh, Y. Huang and A. Sharif, "Modified wideband Planar Inverted-F Antenna", In Proc. EuCAP 2014, April, 2014, Netherlands.
- S. S. Alja'afreh, Y. Huang, L. Xing, "A Compact Wideband and Low profile Planar Inverted-L Antenna", In Proc. EuCAP 2014, April, 2014, Netherlands.
- S. S. Alja'afreh, Y. Huang, L. Xing, "A New Dual-Feed PIFA Diversity Antenna", In Proc. EuCAP 2014, April, 2014, Netherlands.
- H. T. Chattha, S. S. Alja'afreh, Y. Huang, I Hameed and M. Nasir, "Single Element Two-Port Planar Inverted-F Diversity Antenna for Wireless Applications", In Proc. LAPC 2013 Conference, November, 2013, United Kingdom.
- S. S. Alja'afreh, Y. Huang, L. Xing, "A Compact Dual-Feed Water-Based Diversity Antenna", In Proc. LAPC 2013 Conference, November 2013, United Kingdom.
- L. Xing, Y. Huang, S. S. Alja'afreh, S. Boyes, "A Monopole Water Antenna," In Proc. LAPC 2012 Conference, November, 2012, United Kingdom.
- S. S. Alja'afreh, Y. Huang, L. Xing, "A Small, Wideband U-Shaped Dielectric Resonator Antenna", In Proc. LAPC 2012 Conference, November 2012, United Kingdom.

Under Peer Review

Hoppies

Traveling, playing football, Reading and playing cards

Personality

According to The Complete Work Personality Evaluation 'What Breed of Dog Are You at Work?' on Tickle website, this test says that I like German Shepherd. It says that my competitive edge drives me at work. I'm not one to sit back and let others get the good assignments or take sole credit for projects I've had a hand in as well. My sky-high aspirations match my energy level, which is why co-workers and colleagues aren't surprised when I succeed. In fact, they probably expect it from me, which can add some unexpected pressure to my daily tasks. But with my desire to please the group, and the company, I'll find ways of getting the job done regardless of what the job is. My ambitious and competitive spirit earns my colleague's admiration. I try hard and am willing to sacrifice a lot for winning or achieving a goal. My determination and assertive style not only helps me get what I want, but it also impresses the right people.

References

Upon request.

Sager Alja Afreh

24. August 2019