ILHAAM AZIZ OMAR

Personal Information	Mobile: +971-50-4276575 Date of Birth: 17 June, 1994	Email: ilhaam.a.omar@gmail.con LinkedIn: https://www.linkedin.con	
Objective	To join a respectful research organization where I can grow, invest and utilize my engineering knowledge and excellent communication skills towards a career that requires high level of intelligence, dedication and a lot of devotion.		
Interests	Investigating how different sectors such as supply chain, healthcare, engineering systems etc. can be revolutionized with modern technology such as blockchain, AI, IoT.		
Education	Khalifa University of Science and Technology		Graduated: 2019
			Graduated: 2017
Internship Experience	 Electrical & Electronics Engineer Intern Gulf Business Machines (GBM), Dubai, UAE Prepare Bills of Materials (BoM) by studying Floor Plans of various projects like hotels, hospitals, Government Buildings etc. Understand network structure cabling systems & electrical requirements. 		
	Electrical & Electronics Engineer Intern Pacific Controls Cloud Services FZE, Dubai, U.A.E • Assist Facilities Management (FM) team in performing Electrical, mechanical and ELV systems • Conduct a seminar in the final stage of internship to		
	energy efficiency of a data center Research Associate January 2020-Present		
Work Experience	 Supervised under Dr. Raja Jayaraman at KU Conduct literature reviews and determine blockchain technology needs for various applications Publish research in renowned journals and conferences Memristor Undergraduate Research Assistant February 2015-December 2015 Supervised under Dr. Baker Mohammad at KUSTAR 		

Review published papers in the area of memristor device and its characteristics

model

Characterize wet memristor synthesized and work with modeling team to derive

Student Assistant – Office of Research Support Supervised under Dr. Atiq and Dr. Keith at KUSTAR

- Perform web based research on potential industrial sponsors
- Research funding opportunities for KU researchers.

Publications

- [1] H. Abunahla, M. A. Jaoude, I. A. Omar, B. Mohammad and M. Al-Qutayri, "Resistive switching in sol-gel derived microscale memristors," 2016 IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS), 2016, pp. 1-4, doi: 10.1109/MWSCAS.2016.7870045.
- [2] I. A. Omar, R. Jayaraman, K. Salah and M. C. E. Simsekler, "Exploiting Ethereum Smart Contracts for Clinical Trial Management," 2019 IEEE/ACS 16th International Conference on Computer Systems and Applications (AICCSA), 2019, pp. 1-6, doi: 10.1109/AICCSA47632.2019.9035341.
- [3] I. A. Omar, R. Jayaraman, K. Salah, M.C.E. Simsekler, I. Yaqoob, S. Ellahham, "Ensuring protocol compliance and data transparency in clinical trials using Blockchain smart contracts", *BMC Medical Research Methodology*, vol. 20, no. 1, pp. 1-17, 2020.
- [4] I. A. Omar, R. Jayaraman, K. Salah, M.C.E. Simsekler, I. Yaqoob, S. Ellahham, "Applications of Blockchain Technology in Clinical Trials: Review and Open Challenges", *Arabian Journal for Science and Engineering*, pp. 1-15, 2020.
- [5] D. Marbouh, T. Abbasi, F. Maasmi, I. A. Omar, M. Debe, K. Salah, R. Jayaraman, and S. Ellahham, "Blockchain for COVID-19: Review, Opportunities and a Trusted Tracking System," *Arabian Journal for Science and Engineering*, 2020.
- [6] I. A. Omar, R. Jayaraman, K. Salah, M. Debe and M. Omar, "Enhancing Vendor Managed Inventory Supply Chain Operations Using Blockchain Smart Contracts," in IEEE Access, vol. 8, pp. 182704-182719, 2020, doi: 10.1109/ACCESS.2020.3028031.
- [7] I. A. Omar, R. Jayaraman, M. S. Debe, K. Salah, I. Yaqoob and M. Omar, "Automating Procurement Contracts in the Healthcare Supply Chain Using Blockchain Smart Contracts," in *IEEE Access*, vol. 9, pp. 37397-37409, 2021, doi: 10.1109/ACCESS.2021.3062471.
- [8] I. A. Omar, Haya R. Hasan, Raja Jayaraman, Khaled Salah, Mohammed Omar, "Implementing decentralized auctions using blockchain smart contracts", in Technological Forecasting and Social Change, Volume 168, 2021
- [9] I. A. Omar, R. Jayaraman, M. S. Debe, H. R. Hasan, K. Salah and M. Omar, "Supply Chain Inventory Sharing Using Ethereum Blockchain and Smart Contracts," in *IEEE Access*, vol. 10, pp. 2345-2356, 2022, doi: 10.1109/ACCESS.2021.3139829.
- [10] I. A. Omar, M. Debe, R. Jayaraman, K. Salah, M. Omar, J. Arshad, "Blockchain-based Supply Chain Traceability for COVID-19 personal protective equipment", Computers & Industrial Engineering, Volume 167, 2022.

Achievements

- 2nd place in Electrical and Electronics Engineering category at the Fourth UAE Undergraduate Student Research Competition (UGSRC) (May 2016)
- Ericsson's ICT Professional Foundation Program Certificate (2015)
- Certificate of Recognition in Innovation and Engineering Design Course (2015)
- Engineering design project of the talking digital clock for the visually impaired got published in the Emarat Al Youm Newspaper (May 2014)

Skills and Competencies

• Technical Skills:

- Proficient in Microsoft Office (Word, Power Point and Excel); Prezi
- Visual Studio (C++); MultiSim; Matlab
- Remix IDE for Solidity; Xilinx ISE Design Suite; Vivado for Verilog coding

Soft Skills:

- Ability to work as part of a team and independently
- Interpersonal skills and ability to work well under pressure
- Hard working and self-motivated

Languages

- Fluent in Arabic and Swahili
- Excellent command in English

Referees

Dr. Raja Jayaraman Associate Professor

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Engineering

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