

Hazem W. Marar

Personal Information and Contact Details

Name : Hazem Wael Elias Marar

Nationality : Jordanian

Permanent Address : Airport Road/ Amman - Jordan

Mobile : +962 785 908 198

: +962 775 466 530

E-mail : h.marar@psut.edu.jo

Academic Rank: Full-Time Lecturer

Education:

B.Sc., Computer Engineering,

Princess Sumaya University for Technology, Amman, Jordan, Jun. 2010

M.Sc., Computer Engineering-Embedded System Design,

Yarmouk University, Irbid, Jordan, Jun. 2012

Academic Experience:

2018 - Present Full-Time Lecturer
Department of Computer/Electrical Engineering, Princess Sumaya
University for technology (PSUT), Amman, Jordan

2012 - 2018 Laboratory Instructor
Department of Electrical Engineering, Princess Sumaya University for
technology (PSUT), Amman, Jordan

Publications:

Journal Papers

[1] **Hazem W. Marar**, Rosana W. Marar. "Modified Variable Neighborhood Search Algorithm for Maximum Power Point Tracking in PV Systems Under Partial Shading Conditions". TELKOMNIKA, 2022

[2] Rosana W. Marar, **Hazem W. Marar**. "A 15-Gbps BiCMOS XNOR gate for fast recognition of COVID-19 in binarized neural networks". International Journal of Electrical and Computer Engineering (IJECE), Vol. 12, No. 01, February 2022

[3] **Hazem W. Marar** and Rosana W. Marar. "Hybrid Blockchain." Jordanian Journal of Computers and Information Technology (JJCIT), Vol. 06, No. 04, December 2020, pp 317-325

[4] Abugharbieh, Khaldoun, and **Hazem W. Marar**. "Integrating multiple state-of-the-art computer-aided design tools in microelectronics circuit design classes." Computer Applications in Engineering Education 27, no. 5 (2019): 1156-1167.

[5] **Hazem W. Marar**, Khaldoon Abugharbieh, Abdel-Karim Al-Tamimi, "A 1.8 V low power 5 Gbps PMOS-based LVDS output driver with good return loss performance", Analog Integrated Circuits and Signal Processing, April 2014, Volume 79, Issue 1, pp 1-13

Refereed Conference Papers

[1] **Hazem W. Marar**. "A Development of a Secure Charging System for Public Electric Vehicle Charging Points" In the 6th International Conference on Algorithms, Computing and Systems, 2022.

[2] Al-Akel, Waseem, Khaldoon Abugharbieh, Abdullah Hasan, and **Hazem W. Marar**. "A Power Efficient 500MHz Adder." In 2019 SoutheastCon, pp. 1-6. IEEE, 2019.

[3] **Hazem W. Marar** "Synchronization of Grid-Tie Inverters Using 802.11 ah." In 2018 International Conference on Renewable Energy and Power Engineering (REPE), pp. 18-21. IEEE, 2018.

[4] L.Qaisieh, **Hazem W. Marar**, "Transient Over-Voltage Protection in Distributed Generators Systems" Accepted in International conference on Smart Energy Grid Engineering (SEGE2016) to be held in Oshawa, Canada, during August 21-24, 2016.

[5] N. Altawalbeh, **Hazem W. Marar**, Mahmoud A. Hassan "Small-Signal Gain Calculations for a CMOS Analog Amplifier using Short Channel Equations Using nm Technology ", 2015 27th International Conference on Microelectronics (ICM), 20-23 Dec. 2015

[6] Mahmoud A. Hassan, **Hazem W. Marar**, "28 nm Charge Sensitive Preamplifier Using 1 G Ohm Dual PMOS Feedback Resistor Operating in the Weak Inversion Region", Dallas Circuits and Systems Conference (DCAS), 12-13 Oct. 2014

[7] **Marar, H.W.**; Abugharbieh, K.; Al-Tamimi, A.-K., " A power efficient 3-Gbits/s 1.8V PMOS-based LVDS output driver," Electronics, Circuits and Systems (ICECS), 2012 19th IEEE International Conference, pp.240,243, 9-12 Dec. 2012

Professional Development Activities

Workshops attended:

- *Conducted a "Smart Energy Monitoring and Controlling System" with Petra Solar (2012-2014)*
- *Edraak Course Development (2014)*
- *Operate a 3D Laser Scanner Conducted by PSUT and KADDB (2013)*