Faculty C.V.

1. Name

- Abeer Imdoukh

2. Academic Rank

- Full-Time Instructional Assistant, Engineering Laboratory.

3. Degrees

- Master of Science in Electrical Engineering, Kuwait University, 2020.
- Bachelor of Engineering in Electrical Engineering, American University of Kuwait, 2017.

4. Service at this Institution

- Full-Time Instructional Assistant, Engineering Laboratory (2021 – Present).
- Part-Time Teaching Assistant, Engineering Laboratory (2017– 2021).

5. Publications

- Behiry, A., **Imdoukh, A.**, AlAteyah, A., Badreddine, F., AlFar, R., & Rezk, A. (2023, May 1-4). Towards a Self-managed and Gamified Laboratory Experience in Undergraduate Engineering Education. *2023 IEEE Global Engineering Education Conference (EDUCON)*, Kuwait, Kuwait, https://doi.org/10.1109/EDUCON54358.2023.10125169
- **Imdoukh, A.**, Zribi, M. (2023). Maximum power point tracking of a standalone photovoltaic system using electromagnetic field optimization algorithm. *Int J Energy Environ Eng*. https://doi.org/10.1007/s40095-023-00559-z
- Esmaeili, S. E., & **Imdoukh, A.** (2021). Decreasing the Power-Clock Resonant Signal Central Voltage as a Mean for Power Reduction in Integrated Power and Clock Distribution Networks. *Indian Journal of Science and Technology, 14(33)*, 2671–2683. https://doi.org/10.17485/ijst/v14i33.1820
- Esmaeili, S., Al-Khaldi, M., Al-Shammari, S., Darweesh, F., Al-Mannaei, T., & **Imdoukh, A**. (2020). Design, Analysis, and Mechanical Assembly of a Three-Wheeled Solar-Powered Electric Vehicle. *International Journal of Computing and Digital Systems*, 9(03). http://dx.doi.org/10.12785/ijcds/090315
- **Imdoukh, A.**, Shaker, A., Al-Toukhy, A., Kablaoui, D., & El-Abd, M. (2017). Semi-autonomous indoor firefighting UAV. In 2017 *18th International Conference on Advanced Robotics (ICAR*) (pp. 310-315). IEEE. https://doi.org/10.1109/ICAR.2017.8023625

6. Membership in Professional Societies

- Internet Society.
- Kuwait Society of Engineers.

7. Courses Taught

- MATLAB Programming Laboratory (CPEG 201L), 1 cr. (Spring 22).
- Digital Logic Design Laboratory (CPEG 210L), 1 cr. (Spring 23, Spring 24).
- Electrical Circuits Laboratory (ELEG 220L), 1 cr. (Fall 19, Spring 21, Summer 22, Fall 22, Summer 23, Fall 23, Spring 24).
- Electronics Laboratory (ELEG 270L), 1 cr. (Fall 17, Spring 18, Fall 18, Spring 19, Fall 19, Summer 21, Fall 23).
- Programmable Logic Controllers Laboratory (ELEG 301L), 1 cr. (Spring 20, Summer 20, Fall 20, Spring 21, Summer 21, Fall 21, Spring 22, Summer 22, Fall 22, Spring 23, Summer 23, Fall 23, Spring 24).
- Electric Machines Laboratory (ELEG 310L), 1 cr. (Spring 21, Fall 21, Fall 22).
- Power Systems Laboratory (ELEG 330L), 1 cr. (Spring 20, Fall 20, Spring 21, Fall 21, Spring 22, Fall 22, Spring 23, Fall 23).
- Microprocessor and Interfacing Laboratory (CPEG 330L), 1 cr. (Fall 22).
- Control Systems Laboratory (ELEG 421L), 1 cr. (Fall 17, Spring 18, Fall 18, Spring 19, Fall 19, Spring 20, Fall 20, Spring 21, Spring 23).
- Control Systems (ELEG 421), 3 cr. (Summer 21).

8. Other Duties

- Member of Resource Management and Planning Committee in 2022 – 2023 and 2023 – 2024 (college level).
- Member of Academic Honesty Ad Hoc Committee in 2022 – 2023 (college level).
- Member of ABET Assessment for ELEG Program Ad Hoc Committee in 2021 – 2022 (college level).

9. Research

- Completion Research Grant: Low-Swing Integrated Power and Clock Distribution Network, Fall 2022, American University of Kuwait, Kuwait.
- Research Grant: Low-Swing Integrated Power and Clock Distribution Network, Summer 2019, American University of Kuwait, Kuwait.
- Research Grant: Design of Model-Based Gain Scheduling Controllers for Nonlinear Systems, Summer 2018, American University of Kuwait, Kuwait.