

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**

- Esmacili, 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>
- Esmacili, 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. DOI: 10.1109/ICAR.2017.8023625

6. **Courses Taught**

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

7. **Research**

- 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.