

Name: Yousuf Dawood Al-Moallem

Designation: Assistant Professor

Tasks in the Department/College/Sector:

Head of the Department

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Education:

BSc in Electrical Engineering, 2004, King Fahd University of Petroleum & Minerals

MSc in Electrical Engineering, 2011, King Fahd University of Petroleum & Minerals

PhD in Electrical Engineering, 2017, University of Wisconsin–Madison

Specialization:

Electrical and Computer Engineering

Research Interest:

MEMS, NANO Technology, black silicon, fabrications in clean rooms, wireless communication

Publications:

- PhD Dissertation, Dec-2017 and MS Thesis, Jun-2011.
- Almoallem, Yousuf D., Mohammad J. Moghimi, and Hongrui Jiang. "Conformal Antireflective Surface Formed onto 3-D Silicon Structure." *Journal of Microelectromechanical Systems*, 2018.
- Almoallem, Yousuf D., and Hongrui Jiang. "Double-sided design of electrodes driving tunable dielectrophoretic miniature lens." *Journal of Microelectromechanical Systems* 26.5 1122-1131, 2017.
- Almoallem, Yousuf D., and Hongrui Jiang. "Tunable dielectrophoretic microlens with lowered driving voltage." *Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS)*, 19th International Conference on. IEEE, 2017.
- Almoallem, Yousuf D., Mohammad J. Moghimi, and Hongrui Jiang. "Black silicon based iris with reduced light scattering and reflection." *Optical MEMS and Nanophotonics (OMN)*, 2017 International Conference on. IEEE, 2017.
- Aldalali, Bader, et al. "Flexible miniaturized camera array inspired by natural visual systems." *Journal of Microelectromechanical Systems* 22.6 1254-1256, 2013.
- Sheikh, Asrar UH, and Yousuf D. Al-Moellam. "Wireless networking for monitoring and control system of a steel plant." *Wireless Personal Communications* 66.4 771-788, 2012.
- On the design of a wireless network in an industrial environment, UHS Asrar, DAM Yousuf, 2010 IEEE International Conference on Communication Systems, 756-760
- Baek, S., Jeon, E., Park, KS, Yeo, K., and Lee, J., Monitoring of Water Transportation in Plant Stem With Microneedle Sap Flow Sensor; *JMEMS* June 2018 440-447 Bahari, J., and Y Akin Yildirim, A Toprak, O Tigli, YD Almoallem, MJ Moghimi, H Jiang, *Journal of Microelectromechanical Systems* 27 (6), 1213
- Conformal Antireflective Surface Formed onto 3-D Silicon Structure, YD Almoallem, MJ Moghimi, H Jiang, *Journal of Microelectromechanical Systems* 27 (3), 380-382
- Novel Design of Tunable Microlens with Lowered Driving Voltage and Iris with onformal Antireflective Surface, YD Almoallem, The University of Wisconsin-Madison

- Design Considerations for Wireless Sensor Network for Industrial Automation
Y Al-Moallem, King Fahd University of Petroleum and Minerals
- Channel characterization in a tall building with an externally located transmitter
AUH Sheikh, Y Al-Moallem, 2009 7th International Conference on Information,
Communications and Signal
- 377 A 2D Wind Sensor Using the ΔP Thermal Feedback Control S. Wang, Z. Yi, M.
Qin, and Q.-A. Huang 380 Conformal Antireflective Surface Formed onto 3-D Silicon,
Structure YD Almoallem, MJ Moghimi, H Jiang, U Nabholz, W Heinzelmann

Courses Taught:

CSE351 - Signals and Systems, CS201 Digital Logic, CSE 251 Electric Circuit Analysis
EEET/ ELET 101 - Electric Circuits