Mohammad A. Almuslem

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Work Experience:

HK.Alsadiq Sons Contracting Co. Ltd ***April 2021- present***

Electrical Engineer: Project: Upgrade Fire Water System at Juaymah Tank Farm (JTF) | Client: Saudi Aramco

- Design Review.
- Worksite supervision.
- Making sure the construction team understand their tasks.
- Monitoring work progress and provide any help needed by the construction team.
- Following up with the Procurement team for needed materials.
- Following up with QC team for any inspection needed.

Education:

Kansas State University: **August 2015 – May 2020**
Bachelor of Science: **Electrical Engineering**
Emphasis: **Electronics and Communication**
GPA: 3.34/4.0
Relevant Coursework**: Design of Communication Circuits, Microwave Circuits & Antenna Design**

Relevant Projects:

Discrete FM Radio Receiver:

- Designed and constructed cascode amp, colpitts oscillator, mixer, demod, and power amp

Doppler/FMCW Radar:

- Designed, simulated, and performed a layout for the RX/Downconverter segment of a radar

Research Experience:

JK LAB **June 2018 – May 2020**

Research Assistant

- Helped design and fabricate RF antennas and resonators.
- Lead engineer in Micro Nano technology.
- Assisted lab members in various research projects.
- Assisted external university departments in research projects.
- Analyzing experiments data.
- Guided new members on the Micro-fabrication process.
- Lab Maintenance.

Publication:

- *Jungkwun J. K. Kim, Hassan Al Thuwaini, Mohammad Almuslem, Photolithography of SU-8 microtowers for a 100-turn, 3-D toroidal microinductor, Micro and Nano Systems Letters 2018 6:14*

CONFERENCE PROCEEDINGS:

- *Jun Ying Tan, Tae-soon Yun, Mohammad Almuslem, and Jungkwun 'JK' Kim, 3-D Printing Assisted Micromachined RF Patch Antenna, IEEE Int'l Conference on Nano/Micro Engineered & Molecular Systems (IEEE-NEMS 2020), San Diego, USA, 27-30 Sept. 2020*
- *Jungkwun 'JK' Kim, Hassan Al Thuwaini, Mohammad Almuslem, "H-line Transparency Analysis of Microlithography for Millimeter scale High-Aspect ratio SU-8 Structures," The 32nd International Conference on Micro Electro Mechanical Systems, January 27 – 31, 2019 / Coex, Seoul, Korea*

Skills:

- Advanced Design System (ADS).
- Arduino.
- AutoCAD.
- HTML & CSS
- JavaScript.
- MATLAB
- MS Office.
- PSPICE.
- Python Programming and Automation.
- Fluent with a variety of RF lab equipment including spectrum, network, and impedance analyzers.

Honors & Awards:

- Carl R. Ice College of Engineering Undergraduate Research Experience Award **2019-2020**

Certifications and Professional Memberships:

- Saudi Council of Engineers (SCE) **2020-present**
- Google IT Automation with Python by Google on Coursera sponsored by MISK **March 28, 2021**