

Curriculum Vitae
Faysal Al Khulaifi
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EDUCATION:

- KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS (KFUPM)
Master of Science in Chemical Engineering. (May 2014)

MS Thesis: "Design and Synthesis of Heat Exchanger Networks with Variable Stream Properties"

Graduated in the 29th of May, 2014 with Honours.
Cumulative GPA: 3.8 / 4.0

- KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS (KFUPM)
Bachelor of Science in Chemical Engineering. (Feb 2011)

Graduated in the 1st of February, 2011 with First Honours.
Cumulative GPA: 3.8 / 4.0

- Approached by professors from science and engineering colleges at KFUPM to help in research.
- Won the College of Engineering Sciences "Outstanding Student Award 2009-2010".

WORK EXPERIENCE:

Lecturer, Chemical Engineering Dept., KFUPM. (May 2014 – Present)

- Assist the department in research and administrative work.
- Teach a number of courses and labs.
- Pursue a Doctoral degree in Chemical Engineering.

CHE 409 Course Coordinator, KFUPM. (May 2014 – Present)

- Manage all activities and conduct meetings related to this lab course; including tests, scheduling and letter grades distribution for 9 instructors and around 150 students.
- Insure the labs are conducted with highest standards of safety and manage related feedback.
- Help develop course material, author new experiments and improve older ones in the topics of: Unit Operations, Reaction Kinetics and Process Control.

Research Assistant, University of Cambridge, United Kingdom. (Summer 2011)

- Worked at the Magnetic Resonance Research Center in collaboration with the Department of Chemical Engineering and Biotechnology in Cambridge.
- Focus on analytics and characterization of microstructures through In-Situ NMR technology in addition to the study of kinetics of various nanomaterials.
- Results were used to mathematically model certain catalytic reactions and optimize their performances.

Graduate Assistant, Chemical Engineering Dept., KFUPM. (Feb 2011 – May 2014)

- Assist the department in research and administrative work.
- Teach Labs and assist faculty in complimentary lectures.
- Pursue a Master of Science degree in Chemical Engineering.

Lab Specialist, BASF, Dhahran, Saudi Arabia. (Summer 2010)

- An internship position to gain industry experience.
- Conduct quality-assurance tests on different chemical products to satisfy market standards.
- Manage market and industry relationships and assess supply and demand.

PUBLICATIONS

- **Journals:**

Faysal Al Khulaifi, Eid Al Mutairi. **"Synthesis of Heat Exchangers Network (HEN) and Optimization under Variability and Uncertainty"** *Computer Aided Chemical Engineering*, (2016). 38, 1063-1068.

- **Conference Papers:**

Faysal Al Khulaifi, Eid Al Mutairi. **"An Optimization Approach for Maximizing Heat Recovery by Considering Properties Changes"** *Proceedings of the 3rd Middle East Process Engineering Conference, Bahrain*, (2015).

CONFERENCES AND WORKSHOPS

- 4th Saudi International Nanotechnology Conference [SINC] (2016).
- Nanomaterials Development for Petro-Catalytic Applications workshop, organized by SINC (2016).
- 26th European Symposium on Computer-Aided Process Engineering [ESCAPE] (2016).
- 3rd Middle East Process Engineering Conference [MEPEC] (2015).
- Responsible Care – Metric and Code Implementation workshop, organized by Gulf Petrochemicals and Chemicals Association [GPCA] (2015)
- 3rd SINC (2014)
- 2nd MEPEC (2013)

ACTIVITIES:

Physics 101 lab instructor during junior year, KFUPM. (Oct 2009 - Feb 2010)

- Taught basic physics laboratory to a section of 16 freshman students by the request of the Physics Department.
- Handled all duties associated with teaching (i.e. class preparation, quizzes, grading, etc.).
- Participated in meetings with faculty to discuss matters related to my assignment. Identified weaknesses in students and helped them by encouraging them to do their best.

Member of student advisory board to Dean of College of Engineering, KFUPM. (Oct. 2008 - Jun 2009)

- Advised the dean on issues regarding student life in the university, including but not limited to: curriculum adjustments, student accommodations and learning environment.
- Worked with other students in collecting opinions on different issues to bring them up in meetings for discussion.

Member of Chemical Engineering Club, KFUPM. (Feb 2009 – Feb 2011)

- Helped in club activities and organization of events.
- Attended lectures sponsored by the club.

Grader for the Math Department, Physics Department, KFUPM. (Feb 2007 – Feb 2011)

- Graded homework for freshman and sophomore level courses.
- Provided helpful information for instructors on student progress and their level of knowledge.
- Organized grades in the proper format (i.e. with average, standard deviation, etc.).

SKILLS:

- Computer: Experience in Microsoft office, scientific software packages such as MATLAB, Mathematica, Aspen HYSYS, Aspen One, C++ language, FORTRAN, Xcode, Polymath, AutoCAD, Lingo, HEAT-INT and GAMS.
- Languages: Arabic (native), English (fluent).