

OMAR ALQAHTANI

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EDUCATION

Bachelor of Science in Mechanical Engineering

June 2020

University of Wisconsin-Madison, Madison, WI
GPA: 3.91/4.0

Penn Summer Global Institute

2016

University of Pennsylvania, Philadelphia, PA
Summer courses in physics and writing

EXPERIENCE

Undergraduate Assistant Researcher

June - August 2018

University of Wisconsin-Madison, BADGER lab

- Tasked with developing the user interface for the robotic rehabilitation system being developed at the Biomechanics, Assistive Devices, Gait Engineering and Rehabilitation Laboratory (BADGER lab)

Visiting Researcher, Abruña Group

June - August 2017

Cornell University, Ithaca, NY

- Investigated the electrocatalytic activities of carbon supported Pd-Mn nanoparticle on oxygen reduction reaction in alkaline media fuel cells, under the supervision of Prof. Héctor D. Abruña

Undergraduate Research Scholars

September 2016 – May 2017

University of Wisconsin-Madison, Wireless Communication and Sensing Lab

- Participate in a millimeter-wavelength wireless technology development project under the mentorship of Prof. Akbar Sayeed
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HONORS & AWARDS

- *Saudi Arabian Ministry of Education Scholarship, 2016 - Continuing Scholar*
- *KAUST Gifted Student Program (KGSP) Scholarship, 2015 - Continuing Scholar*

Conferences:

7th International Conference on Bioengineering and Nanotechnology: Chicago, IL 2017
NanoEngineering for Medicine and Biology Conference: Los Angeles, CA 2018

EXTRACURRICULARS

KGSP Peer Mentor

August 2017- Present

Mentoring and helping incoming freshmen adapt to college life. Currently mentoring 11 students

Mentor at Qimmah initiative

August 2016 – May 2017

Assisted Arab students to apply to U.S. Universities

National Innovation Olympiad, Saudi Arabia

2012

Participated in the scientific research section - National Innovation Olympiad

Gifted Students' Center, Jeddah

2008 – 2015

Took several courses including: Problem-solving, critical thinking, robotics, electronics, scientific research and cognitive research trust

SKILLS

Languages: Fluent in Arabic and English

Computer Skills: Microsoft Office, Photoshop, SolidWorks, EES, Unity, Unreal, Java, Python, C, C++, R, MATLAB, Originlab

Operational Skills: XRD machine, RDE, basic Chemistry lab skills, 3D printing