

Mohamed Omer

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Education:

Rensselaer Polytechnic Institute, Troy, NY

Doctoral Student in Biomedical Engineering

Expected May, 2024

Texas A&M University

Master of Science Degree in Chemical Engineering

Awarded June, 2020

Cumulative GPA: 3.32

Bachelor of Science Degree in Chemical Engineering

Awarded May, 2018

Minor: Chemistry

Cumulative GPA 3.35

Skills:

Computer: Matlab, Python, R, Promax, Microsoft Office

Language proficiency: English, Arabic

Experience

Presenter at the International Conference for Computational Science and Engineering Conference

Qatar, October 2019

- Presented some thesis work entitled "Process Monitoring Using Multiscale-Interval Principal Component Analysis" at ICSEC (October 2019).
- Worked on an article to be reviewed for publication in the spring of 2020.

Research/Teaching Assistant at Texas A&M at Qatar

Qatar, August 2018-Present

- Performed research on statistical data analysis using Machine Learning techniques to aid in fault detection by combining various methods and applying them on real data using Matlab software.
- Assisted Chemical Engineering faculty members in developing teaching materials, preparing exams and quizzes, and grading of homework and exams.

Assistant Residence Hall Coordinator at Qatar Foundation Student Housing

Qatar, August 2018-Present

- Directly supervised student staff in their programming, student conduct, and implementation of QF's Community Living Standards.
- Supported student development by planning and implementing educational, cultural, and academic programs, as well as overseeing and being involved in emergency response.
- Served as the First Hearing Officer in resident conduct cases.

Project Executive at Pro Hospitality Solutions

Qatar, June-July 2019

- Coordinated project management activities, resources, equipment, and information.
- Created and maintained comprehensive project documentation, plans, and reports.
- Broke projects into doable actions, set timeframes, and liaised with clients to identify and define requirements, scope, and objectives.

- Oversaw project procurement and monitored project progress and handled any issues that arose.

Resident Assistant (RA)/Community Development Advisor (CDA) at Qatar Foundation Student Housing Qatar, December 2017-August 2018

- Facilitated the holistic development of residents through programming and one-to-one resident interactions as well as by participating in departmental initiatives.
- In charge of enforcing all of Qatar Foundation's Community Living Standards through direct supervision of residents by living on campus.

Vice-President of Omega Chi Epsilon (OXE), Chemical Engineering Honor Society Qatar, 2017-2018

- Executed the chapter's mission by organizing and developing programs which helped chemical engineering undergrads move their careers forward.
- Raised awareness of our chapter on campus and lead it to become a well-known honor society in the Qatar campus.

Internship at Qatar Petrochemical Company (QAPCO) Qatar, 2017

- Interned during the summer at the olefin and polyolefin plant.
- Oversaw the different units of production such as the water desalination unit, gas purification unit, heaters, and compressors.

Researcher in the Transformative Educational Experience (TEE) Qatar, 2017

- Performed qualitative research on the subject of "Group Work At Texas A&M" using surveys, focus groups, and interviews.
- Attended in the SIETAR EUROPA conference in May, 2017 in Dublin, Ireland.

Front Desk Assistant (FDA) at HBKU Student Housing Qatar, 2016

- Built up key communication and management skills as a student staff leader responsible for facilitating a high quality and academically supportive living-learning environment in the residence halls.
- Added to my technical knowledge using StarRez software in processing students' information and keeping all their records up to date.

Entrepreneur at Injaz

Qatar, 2015

- Developed a mobile application and worked in its research, marketing, and design for it to be available on the market.
- Communicated and held meetings with clients, securing business deals that helped launch the product.

Research Intern at Texas A&M

Qatar, 2015

- Conducted laboratory research with Chemical Engineering professor Dr. ElBashir involved in gas to liquid technology and purification of fuel using cost-efficient methods.
- Gained technical knowledge by performing many lab procedures such as smoke point, flash point, and distillation that helped move the researchers' work forward.