

# AMMAR BAKHEET

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## OBJECTIVES

Seeking a role as an experienced Master Chemical Engineer where I can apply my expertise in process optimization, waste management, strategic planning and decarbonization technology to make a significant impact. With a creative and visionary mindset, I am passionate about developing and implementing innovative solutions that minimize environmental impact and promote a greener future in our contrary. By leveraging my strong technical background and leadership abilities, I am dedicated to driving positive change by incorporating decarbonization strategies into strategic planning and sustainable practices. Through my expertise, I aim to shape a more sustainable and resilient future for our planet.

## EDUCATION

### ✓ **King Abdulaziz University (KSA)**

*September 2016- 2020* Master of Science in Chemical Engineering

- GPA 4.18 out 5.00
- Honors: Dean's list, Spring 2017 to Spring 2018.
- Selected Courses:
  - ✚ Master Thesis: Investigation of Vacuum Membrane Distillation (VMD) operation parameters to Minimize the polarization effect with collaboration with KAUST
  - ✚ Waste Management: Intending to reduce adverse effects by reducing and reusing valuable gases and emission, recycling, composting, fermentation, landfills, incineration, and land application

### ✓ **Tennessee Technological University (USA)**

*June 2012-August 2015* Bachelor of Science in Chemical Engineering and Minor in Chemistry

- GPA 3.20 out 4.00
- Honors: Dean's list, from Fall 2012 to summer 2015
- Member:

- ➤ American Institution of Chemical Engineering TTU
- ➤ Honor Society Organization.
- Selected Courses:
- Process Design: *Projects* Acrylonitrile Plant, and Biodiesel Production by Solar Energy.

✓ **Boston University**

*September 2011-May 2012* Certificated in Super-Intensive English Programs.

## **EXPERIENCE & INTERNSHIPS**

### **Radisson SAS Hotel | 10 King Abdullah Road. Yanbu, Madinah Province 31941**

*Accountant Assistant and Human Resource Personal* Summer Internship 2008 - 2010

### **Petro Rabigh Refining and Petrochemical Company | Rabigh City, Makkah province**

*Process Engineer (Mono Ethylene Glycol - OMEGA Technology & Propylene oxide)* Regular Employee November 2015-Current

- *Attending major complex 2015-2020 Turnaround*
- *Effective member in Sustainability tasks;*
  - ✓ Community electricity consumption
  - ✓ Community recycling center
  - ✓ Spent catalysts
  - ✓ Flaring & Emission test
  - ✓ Waste Water Treatment Plant sludge
  - ✓ On-site waste incineration
  - ✓ Cost benefit of Waste disposal
  - ✓ Effluent discharges
  - ✓ Cost of effluent treatment
  - ✓ Fire water consumption
  - ✓ Water consumption balance and embodied water
  - ✓ Cost of energy and energy balance
  - ✓ Cost reconciliation at production plant and unit level
  - ✓ Coordination of sustainability programs of production improvement and community projects
  - ✓ Reuse of air-conditioning condensate for irrigation in the community
  - ✓ Support CO2 capture project by Gulf Cryo
  - ✓ Thermal Oxidizing overhauling and operating

## **SKILLS**

- Software: Related to sustainability; Watchwire, BuildingOS Aspen Energy Analyzer, .
- Training& Certifications:
  - Environment Management certificate by NEBOSH; ISO140001:2015
  - Certified in Strategic Planning advisor: *Kind Abdulaziz University*
  - Awarded for as Best Safety Performer in 2018
  - Certified for RCA, introduction to auditing, and Business Continuity Management System ISO 22301
  - Performing Life-cycle assessment tools for projects
  - Reporting based on GRI standard
  - Climate Change: UNECO
  - Project Management Professional: Udemy
  - Habit of Success: *Petro Rabigh.*
  - Sustainability: *Islamic Reporting Initiative*
  - Time Management. *Tennessee Tech University.*
  - Lean Six Sigma. *Tennessee Tech University.*
  - Saudi Aramco Programs for Talent Students in Math and Sciences . *Dhahran,SA May 2009-August 2009*
  - Toastmaster International: Youth Leadership Program. *Saudi Aramco, Dhahran,SA*
  - Languages:
    - Arabic
    - English.

## **ACTIVITES IN COMMUNITY.**

- Volunteering:

- ChemEconomy for Sustainability and Renewable Energy (Founder); 2019-2022
- Saudi Youth for Sustainability;
- Young Professional Community AiChE (Publisher ) January 2017- Present
- Saudi Club in Cookeville. *May 2012- March 2015*
- Muslim Students Organization - TTU. *November 2012- December 2013*
- Chemical Engineering Department TTU. *June 2012 - May 2015*

**Thank you in advance!**