Mohamad Zaid Avais

Chemical Engineer

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PROFILE

A workaholic, highly motivated and an enthusiastic graduate from the University of Bahrain seeking a career in Chemical Engineering and related Oil and Gas, Process Engineering, Environment, Health and Safety and Quality Control and Quality Assurance fields where I can get an opportunity to learn, contribute and grow along with the organization. I possess great interpersonal and team working skills and I am very time oriented.

EDUCATION

09/2015 – 01/2020
Bahrain

University of Bahrain, *B.Sc. Chemical Engineering*
Courses:
Chemical Reactor design, Thermodynamics, Separation process, Heat transfer, Fluid Mechanics, Process Modeling and Simulation, Process Control, Process Equipment Design, Chemical Plant Design, Quality Control and Quality Assurance, Engineering Economics and Engineering Management.

PROFESSIONAL EXPERIENCE

08/2019 – 09/2019
Bahrain

Supreme Council for Environment,
Air Quality Control and Land Waste Management
Air Quality Control and Land Waste Management in Bahrain.

07/2019 – 08/2019
Bahrain

Supreme Council for Environment, *Environmental Officer*
Licensing, Importation, Exportation and control of Chemicals and ODS (Ozone depleting substances).

LANGUAGES

English ● ● ● ● ●

Arabic ● ● ● ○ ○

SKILLS

Problem Solving, Project Management, Leadership and Team work ● ● ● ● ●

Microsoft Word, Excel, Power Point, Aspen Hysys and Matlab ● ● ● ● ○

Quick learning and handling pressure ● ● ● ● ●

Communication and Presentation skills ● ● ● ● ●

CERTIFICATES

- SAChE ELA951 Hazard Recognition (Level 1)
- SAChE ELA952 Minimizing and Identifying Process Safety Hazards (Level 1)
- SAChE ELA906 Dust Explosion Control (Level 1)
- SAChE ELA902 Runaway Reactions (Level 1)
- SAChE ELA901 Chemical Process Safety in the Chemical Process Industries (Level 1)
- SAChE ELA962 Chemical Reactivity Hazards (Level 2)
- SAChE ELA964 Explosion Hazards (Level 2)
- SAChE ELA967 Atmospheric Dispersion (Level 2)
- SAChE ELA970 Hazards and Risk: What Can Go Wrong? (Level 2)
- SAChE ELA973 Hazards and Risk: Safeguards Other Than Relief Systems (Level 2)
- SAChE ELA975 Process Safety Ethics – A Brief Introduction (Level 2)
- SAChE ELA984 Inherently Safer Design (Level 3)
- SAChE ELA991 The Role of Inert Gases in Process Safety (Level 3)
- SAChE ELA992 Dust Explosions (Level 3)
- SAChE ELA996 Risk Based Process Safety - Manage Risk: Training and Procedures (Level 3)
- SAChE ELA950 An Introduction to Process Safety (Level 1)
- SAChE ELA953 An Introduction to Managing Process Safety Hazards (Level 1)
- SAChE ELA954 Lab Safety (Level 1)
- SAChE ELA908 Process Safety Lessons Taught from Experience (Level 1)
- SAChE ELA961 Toxicological Hazards (Level 2)
- SAChE ELA963 Fire Hazards (Level 2)
- SAChE ELA965 Source Models (Level 2)
- SAChE ELA969 Understanding Hazards & Risk (Level 2)
- SAChE ELA971 Hazards and Risk: Introduction to Pressure Protection (Level 2)
- SAChE ELA974 Introduction to Hazard Identification and Risk Analysis (Level 2)
- SAChE ELA980 Risk Review Using LOPA (Layer of Protection Analysis) (Level 3)
- SAChE ELA990 Facility Siting (Level 3)
- SAChE ELA993 Common Chemicals and Their Major Hazards (Level 3)
- SAChE ELA997 Risk Based Process Safety - Manage Risk: Operations (Level 3)
- SAChE ELA995 Risk Based Process Safety - Commit to Process Safety (Level 3)

PROJECTS

09/2019 – 12/2019 **Design of a Catalytic Hydrocracking Unit for the production of low Sulphur Diesel (BAPCO)**
Low Sulphur Diesel production in a HCR with BAPCO provided information using Aspen Hysys, Mechanical design and Hazop. Design and Simulation of SRU.

03/2019 – 12/2019 **Analysis of temporal trends and spatial variability of particulate matter over Bahrain and Eastern Part of Saudi Arabia from 2008 to 2019 using satellite acquired data,** *Senior Project*
To investigate Particulate Matter, its sources and trend over the past decade using NASA's satellite data.

04/2019 – 05/2019 **Production of Acetone**
Acetone from IPA (azeotrope) by using Aspen Hysys

10/2018 – 12/2018 **Heat Exchanger Design**
Heating Kerosene by cooling a Gasoline stream