

# OMAR FARAJ

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I am a professionally qualified chemical engineer seeking employment that will allow development, growth and make use of my existing skills.

## EDUCATION

2014 - 2019

AMERICAN UNIVERSITY OF BEIRUT, **BACHELOR DEGREE IN CHEMICAL ENGINEERING**

2000 - 2014

INTERNATION SCHOOL OF CHOUEIFAT, **HIGH SCHOOL DIPLOMA**

## EXPERIENCE

JUNE 2018 – AUG 2018

**RESEARCH INTERN, THE CYPRUS INSTITUTE**

- **Simulated** the flow of the air particles inside a **DMA on MATLAB** where the size of particles being sampled can be altered by varying input current and voltage.
- Designed an air particle sampling device and then 3D printed it, in order to attach it to a drone and monitor the air quality near residential areas.

DEC 2017 – FEB 2018

**CHEMICAL ENGINEER INTERN, SEVENPLAST CHEMICAL INDUSTRY**

- Worked in **quality control** in order to determine the optimum temperature and residence time for the PVC granules inside the cooler, mixer, and extruder to achieve the desired color.
- Accustomed to production process of **PVC Compounding and Master batch granulation** along with the additives that enables the manipulation of the tensile strength of the granules.

## PROJECTS

- **Production of Formalin from Biomass:** Simulated, optimized, designed all the units, and controlled them for the production of Formaldehyde from the organic waste present in Lebanon. The Simulation was performed on Aspen Plus and Aspen HYSYS
- **IBDAA Competition:** Developed **UV spectrophotometer** from a shoe box in order to detect the presence of PAH in fish to determine it is safe to eat or not.

## ACTIVITIES

- Joined the club of the American Institute of Chemical engineering. (2015-2019)
- Participated in the American University of Beirut **Outdoors construction team**. (2017)
- Participated in the American University of Beirut **Outdoors safety team**. (2016)

## SKILLS

- Languages: ARABIC (mother language), ENGLISH
- Computer Literacy: LoopPRO, Aspen HYSYS, MATLAB & Simulink, LabVIEW, C++, AutoCAD, and Microsoft Office
- Communication Skills: Proposal and technical report writing, drawing technical plans, and public presentations