

Mohamad Fakh

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EDUCATION

American University of Beirut (AUB), Beirut, Lebanon

August 2018 - July 2022

Bachelor of Engineering (BE) in Chemical Engineering

Major Projects:

August 2018 - July 2022

- Introduction to Engineering: Designed and constructed a micro bridge to compete in weight durability competitions
- Chemical Product Design: Established a sustainable water system design for the Lebanese market by using recycled and eco-friendly materials like organic waste to enhance the potability of groundwater
- Final Year Project: Designed a plant to manufacture bioethanol using sweet sorghum as a feedstock and proposed a plan to leverage this plant as a non-fossil fuel source for electricity

EXPERIENCE

SADA Group, Jiyeh, Lebanon

September 2022 – December 2022

Quality Assurance Intern

- Ensured that manufactured products meet internal and external quality standards through conducting chemical and biological tests
- Kept inventory of supplies and chemicals and constantly updated a library of chemical safety data sheets
- Communicated with the business development department regarding quality standards of importing countries
- Created spreadsheets pertaining to the formulation of potentially new products for market entry purposes

Schemazone, Toronto, Canada (Remote)

September 2021 - October 2021

Business Analyst Intern

- Performed internal and external business analysis using different tools and techniques such as SWOT
- Assessed the status of the business under study and recommended future paths for development
- Practiced different routes, business practices, and activities to achieve process optimization
- Met regularly with the stakeholders to present results and recommendations and discuss next steps

American University of Beirut (AUB), Beirut, Lebanon

June 2021 - August 2021

Research Intern

- Conducted a thorough literature review regarding the degradation of the antibiotic tetracycline under different catalytic conditions
- Prepared the catalyst samples needed to run the experimental procedures
- Analyzed and interpreted the results using a high-performance liquid chromatography and a centrifuge

EXTRACURRICULAR ACTIVITIES & VOLUNTEERING

Students for Sustainable Energy for All (SSEA), Beirut, Lebanon

September 2020 – May 2021

Project Team Member

- Attended brainstorming sessions with the team concerning the implementation of “Heat Up a Village” project
- Contacted possible local and international sponsors through phone calls and emails to secure funding for the project
- Supported with the creation of a social and technical framework used to decide on the households where the project will be implemented
- Attended a workshop on human-centered design to incorporate its aspects in the project

American Institute of Chemical Engineering, Beirut, Lebanon

September 2020 – July 2022

Mentorship Program Volunteer

- Held meetings with chemical engineering sophomores to help them adapt to university life
- Provided optimized study plans for students and advised on course selection

SKILLS

Languages: Arabic (native), English (fluent; reading, writing, & speaking)

Computer skills: MATLAB, LabVIEW, TinkerCAD, Microsoft Office, Aspen HYSYS, Aspen Plus, and AutoCAD