

Malak El Khatib

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Motivated Chemical Engineering graduate equipped with a unique blend of engineering knowledge, and technical skills. I am eager to utilize these skills and contribute to the strategic goals of a dynamic organization.

SKILLS

- **Technical case studies**

Microsoft Office (Excel, Word, PowerPoint), AutoCAD, Python, Matlab, MySQL, JAVA, ASPEN Hysys, ASPEN Plus, Loop Pro Case Studies

- **Interpersonal**

Time Management, Oral and written communication skills, Organized, Conflict Resolution, Teamwork, Fast Typing Skills, Organizing meetings and appointments, Attention to Details and Work Ethic.

- **Languages**

Arabic (Native), English (Fluent)

EXPERIENCE

- **American University of Beirut**

Research Assistant

February 2023- Present

- Worked with two professors on two different research topics related to chemical engineering. The first one is about ball milling and the second one tackles the slaking reaction and solar calcination. Overall, three different reports were submitted.

- **Soap Factory Al Arabi**

Internship

June 2022- August 2022

- Used engineering principles to troubleshoot and resolve production issues.
- Quality control: checked product quality before they get distributed and checked and tested the raw materials by conducting several tests.
- Process control: controlled the soap making process and installed a water valve successfully.
- Developed new detergent formulas and modified existing ones for certain customers.

EDUCATION

- **Bachelors Degree in Chemical Engineering**

American University of Beirut

Graduation Date: June 2023

TRAINING COURSES

- **UNDP-Youth Leadership Program**

Gained knowledge about being a leader with innovative thinking. Designed a sustainable and eco-friendly way to get electricity from photosynthesis.

2020

PROJECTS

- **Hydrogen Production from Biomass**

Worked closely with a team to build a full process utilizing gasification to produce hydrogen to solve the issue of excessive garbage in Lebanon.

ASPEN Plus- Excel- Project Libre

- Did a detailed literature review. Calculated the economics of the process. Contributed in simulating the process on ASPEN Plus. Analyzing its safety and applying process control principles.

- **Process Control of a Furnace**

Implemented regulatory control to the Loop-Pro furnace unit to improve its operation in terms of outlet liquid temperature and excess oxygen.

Loop-Pro, Loop-Pro Case Studies, MATLAB

- **Reducing Food and Packaging Waste through Developing Edible Fruit Based Packaging Prototypes**

Proposed and designed a new innovative idea to transform orange peels pomace to a bio-degradable packaging.