

Haidar El Housseini

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Profile

As a fresh graduate, I'm confident that my passion, and my capability as a quick learner allows me to quickly adapt to new environments and excel in diverse situations. Additionally, I possess excellent communication and teamwork skills which have been honed through my involvement in various collaborative projects. Finally, I embrace a positive attitude which constantly propels me to seek out professional development and personal growth.

Education

- **BE Chemical and Petrochemical Engineering, Saint-Joseph University (2018-2023)**
- **Baccalaureate in General Science, Le Lycée National (2003-2018).**

Experience

MEDCO SAL (INTERNSHIP) JULY-AUGUST 2022

- Assisted in the R&D department.
- Tested chevron products that are used by MEDCO.
- Got an overview of field operations.

INNOTECH LEBANON (INTERNSHIP- OPERATION ASSISTANT) JUNE-JULY 2022

- Learned how to plan and execute technical production.
- Learned how to collaborate with a team on a shared goal.
- Learned how to communicate and share our visions effectively.

Projects

DESIGNING A HYDROGEN POWER PLANT USING NATURAL GAS IN LEBANON (January-May 2023)

- Created a detailed process flow diagram of SMR production process.
- Calculated the mass and energy balance to obtain 99.99% hydrogen purity, as well as designing the reactors and the reformers.
- Developed an environmental and economic analysis, and HAZOP study.

PROCESS DESIGN FOR CO₂ EXTRACTION (April-June 2022)

- Developed a project to clean the sour gas from CO₂, treat it with MEA solvent and recycle it.
- Started with the process statement and options, followed by the presentation of a CCGT power plant and the CO₂ capture process on ASPEN HYSYS.
- Followed with identifying the material, energy balances and unit designs and showing the control loops. To finally show the environmental impact and economic analysis and well shown HAZOP study.

FIELD CASE STUDY (November-December 2021)

- Worked on a case study that required detailed research about the correct drill ships that should be used in a field located 530 km offshore Canada in EL1143 Block of Jeanne D'Arc Basin
- Calculated the mud weight, the drill pipe pressure, the formation pressure, and the kill mud weight, and presented the well control and evaluated the risks of the project and their mitigations.

Languages and skills

- **Languages:** Arabic, English, French
- **Tools:** CAD, Aspen HYSYS