

HEBAH ALABDALMOHSIN

Resourceful and target-focused Chemical Engineering Graduate with a strong grasp on data collection, analysis, and technical reporting. Confidently pursuing career ambitions in chemical engineering with expert proficiency in identifying and resolving inefficient operational processes while maintaining safety-focused and compliant practices. Committed to strategic decision making, analytical problem-solving, and diligent management of project requirements. Progressive experience with and knowledge of regulatory compliance, engineering technology, project estimation, in-field requirements, and the ability to emphasize quality standards as a natural part of all work performed.

SKILLS SUMMARY

- ✓ Build and foster purposeful working relationships, positively influencing teams to strive for continuous process improvement and achieve pre-set targets. Developed through extensive customer-facing experience and cross-collaboration on academic graduation projects.
- ✓ Strong analytical, mathematical, and numeracy aptitude, able to interpret and apply complex data sets, conduct comprehensive research, compile and present reports, navigate project requirements, and adhere to all safety regulations, guidelines, and standards.
- ✓ Skilled in technical problem-solving and issue/risk identification, balancing competing and shifting priorities in high-energy sectors while maintaining a performance-focused demeanour in all challenges undertaken.
- ✓ Act as a reliable representative of all employers, utilizing well-defined interpersonal and communication skills in interactions at all professional levels.
- ✓ Strong aptitude for technology, including Microsoft Office, SolidWorks, HYSYS, COMSOL, Visio, and MATLAB proficiency - effortlessly adapting to new technologies, tools, and equipment as required.

TECHNICAL PROFICIENCIES

- ✓ Design and development of plans/drawings, including preliminary layouts and final renderings.
- ✓ Performance of Pump System Engineering Calculations, Hydraulic Modelling Analysis, Cost and Material Estimates, and Equipment/Process Assessment.
- ✓ Familiarity with construction projects and activities, including knowledge of safety, quality, and environmental regulatory compliance measures.
- ✓ Effectively use and develop process simulation software for a variety of operational and project advancement needs.
- ✓ Accurate and orderly technical reporting and analysis, including summary tables, data entry, and field observations.
- ✓ Avid learner, passionate about advancing industry knowledge and technical proficiency through an open and enthusiastic approach to all professional training opportunities.

EDUCATION

Bachelor of Chemical Engineering, Dalhousie University (Halifax, Canada)

May 2021

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RELATIVE EXPERIENCE

Improved Dissolved Nitrogen Removal System, Freshwater Supply Project, Aquaculture Facility: Dalhousie University (Halifax, Canada) April 2020

The goal of the project was to identify ways to improve the performance of a Nitrogen Removal System to ensure it met the required minimum nitrogen concentration.

Undertook responsibility for the HYSYS simulation and the calculations required to prove the validation and performance of the design process system. Completed safety analysis with a focus on creating a 'What-If Analysis Table, highlighting the potential hazards that could occur with the degassing column system in the workplace, communicating consequences and preventative measures/elimination measures for these consequences. Also completed Economic Analysis for the degassing column system by identifying the capital and operational cost of the equipment used, making calculations to determine the operational power consumed by each unit to produce a rough cost estimate.

Robot Design Project: Saint Mary's University (Halifax, Canada) January 2017

This project encompassed the design and programming of a functional robot that was able to collect various objects and different speeds, navigating movement across rough terrain. Assumed responsibility for developing a robot simulation via SolidWorks to be used during the robotics competition - team awarded first place in the 2017 competition.

VOLUNTEER EXPERIENCE

Conversation Partner, The Language Center at Saint Mary's University (Halifax, NS) 2018
Provided mentorship and support to students who were newcomers to Canada or ESL (English Second Language). Engaging students in conversation and other language-building activities to help develop confidence, advance their English language skills, and assist with their reading comprehension.

Volunteer, Iron Ring Ceremony (Camp 7) at Dalhousie University (Halifax, NS) 2018
Assisted with photographing the event for donor promotions and subsequent event highlights, also organized student obligation certificates to help streamline the event.

Receptionist, Institute of Electrical and Electronic Engineering (IEEE) (Halifax, NS) 2017
Supported the IEEE National Engineering Day by volunteering in an administrative capacity, serving as the first point of contact, registering attendees, signing up individuals with IEEE, and providing a general overview of the day's events and the Institute.