

EDUCATION

Northeastern University – College of Engineering

Bachelors in Chemical Engineering with a Minor in Sustainable Energy Systems

Boston, MA

Expected Spring 2024

Washington State University (Honors College)

Bachelors in Chemical Engineering with a Minor in Computer Science

Pullman, WA

Fall 2020 - Spring 2021

WORK EXPERIENCE

American Gas Association

Washington, D.C.

Operations & Engineering Intern

June 2023 - August 2023

- Utilized data analysis tools and techniques to uncover patterns and insights from peer review data, contributing to informed decision-making and strategic planning for hydrogen-related projects.
- Assisted in managing and maintaining a comprehensive database tracking trends in peer reviews for companies within the natural gas and hydrogen energy industries.
- Developed and implemented data visualization dashboards that effectively communicated key findings and trends to both technical and non-technical stakeholders.

Transaera, Inc. – Greentown Labs

Somerville, MA

Chemical Engineering Co-op

January 2023 – June 2023

Chemical Engineering Internship

September 2022 – December 2022

- Led chemical development of desiccant-based coating for novel cooling application, resulting in energy savings in HVAC systems of up to 40 percent.
- Established process parameters and key process indicators to optimize coating process, ensuring a repeatable & consistent protocol.
- Characterized different desiccant powders, slurry, and coatings using a dynamic vapor sorption instrument, X-ray crystallography instrument, viscometer, FTIR spectroscopy, pH meter, etc.
- Developed and compared isotherms of 70 samples and characterized hysteresis of each sample.
- Enacted key safety procedures and regulated chemical inventory.

Biofilm Engineering Research Group at Washington State University

Pullman, WA

Voiland School of Engineering

June 2019 – June 2021

Undergraduate Research Assistant

- Researched and presented applications of research in bioremediation, wastewater treatment, biofuel and biochemical production, microbial fuel cells, etc.
- Organized data from biofilm reactors to build mathematical models that can be used to predict rates of biofilm cell growth using Microsoft Excel and MATLAB.
- Regulated five biofilm reactors with data analysis of potentiostats collected from EChem Software.

PROJECT EXPERIENCE

Museum of Science, Boston Sustainability Museum Exhibit

Boston, MA

Northeastern University – College of Engineering

September 2021 – December 2021

- Designed and developed museum exhibit that illustrated difference in energy efficiency between nuclear energy, wind energy, and solar energy through game-based learning.
- Coded and wired game-interface in Arduino, MATLAB, and MATLAB App Designer.
- Designed and assembled using AutoCAD, SOLIDWORKS, cutting, 3D printing, and soldering.

VOLUNTEER EXPERIENCE

Boston Turkish Cultural Center (TCC)

Boston, MA

Tutor/Community Volunteer

August 2021 – Present

- Tutor middle school and high school students (English Language Learners) in the Turkish community of Boston a variety of subjects including: English, Mathematics, and Chemistry.

Skills

- Technical: C/C++, C#, Python, Javascript, SOLIDWORKS, AutoCAD, Arduino, Adobe Suite, Microsoft Suite, Aspen PLUS.
- Personal: Indoor/Outdoor Gardening, Knitting, Running, Learning Arabic, Skiing.