

Mason Phelps

Baton Rouge, LA | (225) 402-6461 | mphelp4@lsu.edu

MasonEPhelps.com

www.linkedin.com/in/masonephelps

EDUCATION

Louisiana State University (LSU), Baton Rouge, Louisiana

August 2018 – December 2022

Bachelor of Science, Chemical Engineering

GPA: 3.40

Related Coursework: Material and Energy Balances, Thermodynamics, Momentum Transfer, Heat and Mass Transfer, Chemical Reaction Engineering, Process Design, Unit Operations, Process Safety Economics and Design, Numerical Methods, Process Dynamics and Control Systems, Engineering Measurements Lab and Statistics, Unit Operations Lab, Biochemical Engineering, Process Separations Design and Synthesis, Colloids and Interfacial Engineering, and Process Modeling and Programming.

EXPERIENCE

Slaughter & Brookshire Engineers and Constructors, Baton Rouge, Louisiana

June 2021 – Present

Process Engineering Specialist

March 2023 – Present

- Large-scale hydraulic modelling modeling and pump performance analysis in PIPE-FLO.
- Continuing to build and develop the experiences gained during my internship below.

Process Engineering Intern

June 2021 – February 2023

- Fabricated process flow diagrams & piping and instrumentation diagrams to aid process design.
- Collaborated with various disciplines to specify equipment datasheets and instrument datasheets.
- Consulted with various equipment vendors to select the best solution for the client's process.
- Conducted hydraulic analysis on piping networks to assign appropriate line sizes.
- Sized various pieces of equipment according to process requirements.
- Simulated processes using Aspen Plus and Aspen HYSYS.
- Participated in a 16-hour coarse HAZOP with a client.
- Training new interns during their co-op.

LSU College of the Coast & Environment, Baton Rouge, Louisiana

August 2018 – December 2018

Environmental Lab Assistant

- Processed sediment samples for chemical composition analysis and organic burn off analysis.
- Ensured glassware was washed to a high quality in acid bath to prevent contamination between samples.
- Trained new coworkers on proper technique to increase overall team efficiency, quality, and throughput.

SKILLS / HONORS

Technology: Aspen Plus, Aspen HYSYS, PIPE-FLO, MATLAB, Simulink, Python, VBA, Microsoft Excel, and Visio.

Languages: Intermediate French

Certifications: Twelve SChE Certification Courses

Honors: President's Honor Roll (Spring 2019), Dean's List (Fall 2018), Taylor Opportunity Program for Students Recipient (Four Years).

ACTIVITIES

Membership: American Institute of Chemical Engineers (AIChE) Member, National Honors Society Member.

Community Service: Volunteered at local church for two summers.

COMMUNICATION AWARDS

LSU Distinguished Communicator Medal Recipient: Awarded to students who possess the competitive skills and knowledge needed for 21st-century communication and leadership. One of seven recipients in the LSU Fall 2022 graduating class. Visit MasonEPhelps.com for my digital portfolio created during this program.

LSU Communicator Certificate: Completed multiple communication intensive courses at LSU.