LUCAS LASHER

309-531-3494 • llasher2@illinois.edu • lukelash.github.io

EDUCATION

University of Illinois at Urbana-Champaign

Master of Engineering in Mechanical Engineering — *May 2022 | GPA: 4.00/4.00*

Bachelor of Science in Mechanical Engineering — *December 2020 | GPA: 3.37/4.00*

SKILLS

Relevant Coursework: Data Structures, Full Stack Development, Database Systems, Stats of Big Data and Clustering, Electronic Trading

Programming Languages: Python, SQL, C++, MATLAB

PROFESSIONAL EXPERIENCE

Chevron Phillips Chemical — **Summer 2021 | Summer 2020**

Mechanical Engineering Intern — Houston, Texas

- Developed weld and instrumentation scopes of work for installation of safety-critical process monitoring equipment
- Evaluated process needs and economics in support of installing a new heat exchanger
- Introduced mechanical reliability strategies as site transitioned from reactive to proactive maintenance philosophy

University Housing, University of Illinois — **Fall 2017 – Fall 2020**

Resident Advisor — Urbana, Illinois

- Applied an educational approach to assist residents in shaping their individual interpretations of success
- Addressed the unique needs of underrepresented, international, and individual students and successfully incorporated these students into the residence hall and university communities
- Responded in events of life safety, crisis, and other emergencies or significant campus events

Illinois Business Consulting — **Fall 2018 – Spring 2019**

Consultant — Champaign, Illinois

- Investigated organizational causes of ineffective risk and issue management for national weapons researcher
- Explored and identified key avenues of new monetization for electronics supplier operating in supply chain SaaS and DaaS spaces

LyondellBasell — **Summer 2019 | Fall 2018**

Maintenance and Reliability Co-op — Houston, Texas | Morris, Illinois

- Planned and implemented Management of Change scopes to extruder cooling systems and die plates to reduce equipment shutdown frequency
- Investigated root causes responsible for reoccurring failure modes in centrifugal pumps
- Established scope of construction of lifting structure to serve high-load hoist equipment