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| **EDUCATION** |  |
| **University of Illinois at Urbana-Champaign** | *Graduation: December 2020* |
| *Bachelor of Science in Mechanical Engineering* | *Cumulative GPA: 3.35/4.00* |
| **PROFESSIONAL EXPERIENCE** |  |
| **University Housing, University of Illinois** | **Urbana, Illinois** |
| *Resident Advisor* | *Fall 2017 – present* |
| * Apply an educational approach to assist residents in shaping their individual interpretations of success * Respond in events of life safety, crisis, and other emergencies or significant campus events * Address the unique needs of underrepresented, international, and individual students and successfully incorporate these students into the residence hall and university communities | |
| **Chevron Phillips Chemical** | **Houston, Texas** |
| *Mechanical Engineering Intern* | *Summer 2020* |
| * Introduced mechanical reliability strategies as site transitioned from reactive to proactive maintenance philosophy * Enacted increased visibility of spare parts and put forth recommendations for smarter equipment maintenance * Supported additional projects encompassing site-wide initiatives in weld compliance, maintenance quality measures, and various equipment improvements | |
| **Illinois Business Consulting** | **Champaign, Illinois** |
| *Consultant* | *Fall 2019 – Spring 2020* |
| * 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** | **Morris, Illinois | Houston, Texas** |
| *Reliability Co-op II, III* | *Fall 2018 | Summer 2019* |
| * 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 * Oversaw the replacement of obsolete air blowers and addressed maintenance and reliability concerns as new models underwent phase-in | |
| **Caterpillar** | **Champaign, Illinois** |
| *Statistical Tolerance Analysis (STA) Intern* | *Summer 2018* |
| * Applied tolerance analysis methods and GD&T standards to identify potential assembly fit-up risks on heavy earthmovers * Prepared STA simulations to predict real-world assembly failures according to three-sigma metrics * Presented project reports to customers outlining tolerance analysis results and recommended solutions | |