

Katelyn Spierdowis

14049 West Bacon Road Albion, New York | (585)-332-8100

kate.spierdowis@gmail.com

www.linkedin.com/in/katelyn-spierdowis

PROFESSIONAL EXPERIENCE

Civil Engineering Internship

Summer 2022

Wendel Companies – Williamsville, NY

- Contributed assistance to a variety of projects including transportation, stormwater, site civil, and solar.
 - MVVA Ralph C. Wilson Jr Centennial Park Project
 - BSA Albany Street Overflow Improvement and Gunitite Repair Project
 - Centennial Park Niagara Falls Project
 - RIC Machias and Skaneateles Solar Projects
- Assisted the development of detailed engineering plans using Civil 3D and collaborated with colleagues to optimize the layout and minimize unnecessary expenses.
- Performed traffic signal timing and produced corresponding intersection geometry for Traffic Impact Study.
- Assisted project engineers with job submittals, RFIs, cost-of-materials estimates, reports and document trackings, project documentation, as well as attended on-site project visits, construction meetings and subsequent meeting minutes.
- Gained experience in blueprint reading along with preparation of plan sets.

ES110 – Clarkson University

Spring 2021

- For this semester the ES110 design project was a Bench-Scale Solar Water Heater Prototype. The team researched solar power and technologies that can use solar power, such as solar water heaters, and based on this research the team had to write two formal Technical Reports.
- Individually brainstormed potential ideas using a formal brainstorming process and evaluated the merits of each possible solution. After collaborating as a group and settling on a design, the team followed a formal design process.
- Developed a professional drawing of the design using AutoCAD.
- Researched the costs of the materials required to build the prototype and created a table that identified the key features of the prototype design as well as the associated cost for each feature.
- Created step-by-step instructions to build the design from raw materials to assembled product.
- Designed a test plan that enabled the team to verify that the built prototype will meet all of the performance specifications and the design constraints. The team identified each test, the data to be collected, and how that data would be used to evaluate the performance of the prototype.
- Grade Earned: A

Engineering Design Team Work – Clarkson University

- **Paper Columns:** Design and build a structure to hold a 25-lb weight at least two inches above the surface using only one sheet of letter paper and four inches of adhesive tape.
- **Pumped Hydro Energy Storage System:** Design a pumped hydroelectric energy storage system to help time-balance Clarkson University's electrical energy demand.
- **Spaghetti Bridge:** Design and build a truss bridge to support a central load of 50 lb over a span of 12 inches using uncooked spaghetti and hot glue.

EDUCATION

Clarkson University Potsdam, NY

Aug 2020—Present

Bachelor of Science in Civil Engineering, Concentration in Structural Engineering
Expected Graduation: December 2023
Presidential Scholar [Fall 2020, Spring 2021, Fall 2022]
Dean's List [Fall 2021, Spring 2022]
GPA: 3.835
Professional Societies: ASCE, SWE
Honors: Chi Epsilon Honor Society [Treasurer 2022-2023]

AREAS OF EXPERTISE

Project & Time Management — Problem Solving — Analytical Thinking — Attention to Detail — Leadership

Communication Skills— Technical Writing

TECHNICAL SKILLS

ArcGIS, AutoCad, Bluebeam Revu, Civil 3D, MATLAB, MS Office Suite [Word, Excel, PowerPoint]