

# Erin O'Brien

eobrie03@syr.edu ▪ 3612 Turner Dr., Endwell, NY ▪ 607-205-4016  
LinkedIn: [linkedin.com/in/obrienerine](https://www.linkedin.com/in/obrienerine)

## EDUCATION:

Syracuse University, College of Engineering and Computer Science  
Bachelor of Science Civil Engineering, Minor: Environment and Society

May 2021

## SKILLS:

*Software:* Adobe Creative Suite, AutoCAD, Autodesk Revit, ArcGIS, Mathcad, Rhinoceros 3D

*Other:* Word, Excel, PowerPoint, Microsoft Teams, Zoom, Conceptboard, Theodolite

## RELATED COURSEWORK:

Construction Engineering and Project Management, Introduction to Geomatics and BIM, BIM, Architectural Design, Sustainability of Civil and Environmental Systems, Introduction to Environmental Engineering, Analysis of Structures and Materials

## RELATED WORK EXPERIENCE:

**Construction Project Management Intern, Hulbert Engineering and Land Surveying, Binghamton, NY** June 2020-August 2020

- Oversaw interior and site construction projects for the Binghamton City School District
- Collaborated with architects to propose new designs for project
- Directly worked with construction manager to document progress of projects

**Civil Engineering Intern, Broome County Department of Public Works, Binghamton, NY** May 2019 – August 2019

- Utilized GPS to do sewer shed mapping to complete the MS4 program for Broome County
- Evaluated multiple company proposals based on experience, location and history with County for various county construction and design projects
- Applied ArcGIS to map watersheds across Broome County to update County records using previously surveyed land

## NOTABLE PROJECTS:

**Wegmans Total Site Design, Senior Design Project** February 2021-May 2021

- Worked with 5 other students designing a sustainable Wegmans supermarket and retail pad in in North Carolina
- Focused on designing the structural shell of the building, the foundation, the parking lot and a green roof with a terrace
- Created a project schedule and performed a cost estimation for the project

**Concrete Building Design, Design of Concrete Structures** April 2020-April 2020

- Worked with two other students to design a structural shell of a building using primary and secondary beams and creating rebar schedule for a five-story concrete structure

**Building Design, Introduction to Geomatics and BIM** December 2018-December 2018

- Used Autodesk Revit to design a 6-story building with a foundation and engineering sheets showing elevations

**Land Surveying, Introduction to Geomatics and BIM** August 2018 – October 2018

- Operated a theodolite, total station, measuring tape and 3-D scanner with three other students to survey landscapes across Syracuse University's campus
- Applied measurements to create a 3-D image of landscapes on AutoCAD

**Warren Truss Bridge, Introduction to Engineering** December 2017-December 2017

- Designed and constructed a 3x1 foot warren truss bridge with wood and analyzed the strength with two other students applying truss calculations
- Applied weights and identified and analyzed joints where bridge failed

**Shopping Mall Design, Introduction to Engineering** October 2017-October 2017

- Utilized AutoCAD to design a floor plan for a single-story mall with at least 75% leasable space with two other students

## WORK EXPERIENCE:

**Academic Excellence Workshop Facilitator (Tutor), Syracuse University, Syracuse, NY** August 2019 – Present

- Collaborated with a PhD student to facilitate group discussions and study session for students enrolled in calculus courses
- Lead engineering students through course material twice a week, one hour a day to enhance overall understanding and implementation of content learned

## LEADERSHIP/ACTIVITIES:

Phi Eta Sigma National Honor Society

Society of Women Engineers

American Society of Civil Engineers

Syracuse Women's Club Lacrosse

Youth Lacrosse Coach

September 2018 – Present

September 2017-Present

September 2017-Present

September 2017 – Present

April 2015 – Present