

EDUCATION

Currently attending the University of Notre Dame in South Bend, IN (Class of 2018).

- Major: Civil Engineering (Concentration in Structural Engineering)
- Major GPA: 3.778
- Cumulative GPA: 3.721

Graduated from Marmion Academy, a JROTC college preparatory school in Aurora, IL (Class of 2014).

- Salutatorian of graduating class
- GPA: 4.833 on a 4.0 scale (weighted GPA)

ENGINEERING - RELATED ACADEMIC EXPERIENCE

Undergraduate Research on Tall Buildings

09/2015 – Present

- Assisted my research mentor (a civil engineering PhD candidate) on creating testing protocols for tiltmeters and analyzing the data obtained from the tests.
- Aided in the creation of a database of current tall buildings based on specifications outlined by my research mentor.
- Helped fabricate and dynamically test scale structures.

ASCE/AISC Steel Bridge Competition Team at the University of Notre Dame

09/2014 – 04/2015

- Assisted in design and fabrication of the team's bridge.
- Student member of ASCE.

INTERNSHIPS

ATMI Precast in Aurora, IL: a precast concrete company that engineers and manufactures precast wall panels for use in tilt-up construction.

- Two summer internships 05/2015 – 08/2015 and 05/2016 – 08/2016
- One winter internship 12/2015 – 01/2016
- One academic year internship (current school year) 08/2016 – 04/2017
- Gained extensive knowledge of Tekla Structures 3D BIM software by setting up ATMI's company standards (standard details, drawing sheet layouts, etc.) as they transitioned from using AutoCAD to Tekla.
- Designed temporary bracing used to stabilize wall panels during tilt-up construction, as well as drafted the designs in AutoCAD.
- Developed macros using Excel Visual Basic for Applications (VBA) to automate the creation of reports (Production Bill of Materials, Erection Hardware Order Form, etc.) based on information extracted from the 3D Tekla model of a project.
- Reviewed shop drawings using Bluebeam Revu software.
- Academic year internship work (using remote desktop connection) includes modeling in Tekla Structures and programming in Excel VBA.

Frank Novotny & Associates in Willowbrook, IL: a civil engineering consulting firm that specializes in municipal infrastructure improvements.

- One summer internship 06/2014 – 08/2014
- Assisted in surveying and taking measurements of existing roadways and walkways to aid in restoration projects.
- Supervised contractors as they poured concrete or asphalt to make sure their work corresponded to the drawing set.

OTHER WORK / VOLUNTEER EXPERIENCE

Knute Rockne Memorial Recreational Facility at the University of Notre Dame

08/2014 – 05/2016

- Worked as a front desk and weight room attendant.

College Mentors for Kids – University of Notre Dame Chapter

09/2014 – Present

- Mentor to a local elementary school student (1st through 4th grade) who visits Notre Dame's campus each week with his or her whole class.
- Weekly visits to campus include educational activities that promote a desire to attend higher education, as well as entertaining group activities to foster friendships among mentors and buddies.

United Way Student Tutoring

01/2015 – Present

- Weekly visits to a local YMCA after school program for kindergarten through 4th grade students.
- Help students to either read challenging books and advance their reading level or finish their homework for the day.

TECHNICAL SKILLS

Word, Excel (including VBA), PowerPoint, Tekla Structures, SAP2000, AutoCAD, Revit, SketchUp, Bluebeam, MATLAB

AWARDS AND ACHIEVEMENTS

Chi Epsilon National Civil Engineering Honor Society | *Member of the University of Notre Dame chapter*

Present

Dean's List | *top 30% of students in the College of Engineering at the University of Notre Dame*

05/2015, 05/2016, and 12/2016

St. Timothy Youth Award | *awarded by the Rockford Diocese to a student who exemplifies outstanding Catholic teen leadership*

05/2014

First Tee of Aurora/Fox River Valley National Scholarship | *for scholarship and embodiment of the program's values*

01/2014

Battalion Executive Officer of Marmion Academy's JROTC Battalion | *2nd highest-ranked and 2nd in command*

04/2013