

# Alison Heisler

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## Objective

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Join a team where I can contribute my skills and knowledge in the field of civil engineering to further the overall success of the organization

## Education

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### **BACHELOR OF SCIENCE IN ENGINEERING | CURRENT STUDENT-MAY 2019| RENSSELAER POLYTECHNIC INSTITUTE**

**Major:** Civil Engineering

**Concentration:** Structural Engineering

**Related coursework:** Timber Design, Advanced Concrete Structures, Applied Hydrology and Hydraulics, Concrete Design, Steel Design, Introduction to Structural Engineering, Introduction to Geotechnical Engineering, Introduction to Transportation Engineering, Introduction to Environmental Engineering, Strength of Materials, Engineering Dynamics, Multivariable Calculus and Linear Algebra, Differential Equations, Physics I and II, Engineering Communications, Introduction to Engineering Design, Beginning Programming for Engineers, Thermals and Fluids

## Experience

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### **STRUCTURAL ENGINEERING| INFINIGY ENGINEERING| CURRENT**

#### **Structural Engineer Intern (November 2017-Current)**

- Develop Risa-3D models to complete wind and ice analysis on current mount replacement projects
- Design wood pole models using O-Calc Pro
- Skills include analyzing member failure, writing structural analysis reports and using Risa-3D and O-Calc Pro

### **UNDERGRADUATE RESEARCH PROGRAM| RENSSELAER POLYTECHNIC INSTITUTE| NOVEMBER 2017**

#### **Centrifuge Laboratory (May 2017-November 2017)**

- Assisting graduate geotechnical students with building models to be tested with the centrifuge and shake table
- Providing observation assistance during earthquake simulation tests
- Skills include calibrating the centrifuge, preparing high speed cameras, measuring sand layers, and soldering wires
- Instruments include a drill press, oscilloscopes, multimeters, and micrometers

### **CONCRETE CANOE TEAM| RENSSELAER POLYTECHNIC INSTITUTE| FALL 2016-CURRENT**

#### **Captain of the Concrete Canoe Team**

- Creating project timelines, managing finances, organizing meetings, ordering materials and assigning team tasks
- Instruments include a water jet, cement mixer, and concrete compression machine

### **CALCULUS I MENTOR| RENSSELAER POLYTECHNIC INSTITUTE| FALL 2016**

- Mentored two classes of 10 Calculus I students
- Assisted students as they acclimated to the college environment, prepared lectures and graded assignments

## Skills

Proficient with Microsoft Office, MATLAB, AutoCAD, SAP2000, Risa 3D, O-Calc Pro

## Leadership

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### **NY EPSILON CHAPTER OF PI BETA PHI FRATERNITY FOR WOMEN| CURRENT**

#### **Vice President of Member Development (December 2016-December 2017)**

- Overseeing study hours and the academic achievements of sorority members

#### **Committee Chair of Academic Enhancement (January 2016-December 2016)**

- Led a six person committee focused on ensuring all academic standards of the sorority were met

#### **Panhellenic Representative for Rules and Elections Committee (August 2016-May 2017)**

- Planned class elections and enforced campus policies