

*Current Civil Engineering Major with a Psychology Minor, I believe my circumstances allow me to have a heightened ability to work with, under, and above others in a way that minimizes potential conflict while maximizing focus on the task at hand. Furthermore, experience with Python, Revit, and QGIS also allows me to be helpful in an engineering workplace scenario.*

## EDUCATION

Bachelor of Engineering, Civil Engineering, Minor: Psychology, The City College of New York, May 2027  
GPA: 3.280

## RELEVANT COURSEWORK

### Structural and Site Plans (Fall 2024):

Graphical methods of conveying ideas and information related to civil engineering projects. Functional planning. Structural plans and details in wood, masonry, steel, and concrete. Topographic mapping and site plans using modern computer software.

### Statics (Spring 2024)

Laws of motion and equilibrium. Elements of vector algebra. Equilibrium of rigid bodies. Constraints, and reactions. Equilibrium of machines and hinged frames. Internal forces in trusses and beams. Shear and bending moment diagrams. Analysis of cable systems. Friction. Centroid and centers of gravity. Moments of inertia. Work and virtual work. Stability of equilibrium.

### CE Data Analysis (Spring 2024)

Role of statistics and probability in civil engineering. Measurability and variability. Data collection. Descriptive analysis. Presentation of data in the context of civil engineering. Numerical descriptive statistics. Probability distributions and their application to civil engineering. Introduction to inferential statistics. Applications of civil engineering quality control. Linear correlation and regression analysis.

## QUALIFICATIONS

**Key Skills:** Communication, Active Listening, organization, research, Computer Skills, problem-solving, and conflict resolution.

**Core Qualities:** Active listener, Willing to learn from superiors and coworkers, patient, Hardworking, Committed to going above and beyond what is asked, and detail-oriented.

### **Technical Skills:**

Proficient with Revit to design buildings and structures, QGIS to map out parts of New York, Python coding experience, knowledgeable in Microsoft Office including Excel, Powerpoint, and Word

## PROJECTS

QGIS Map Project: To learn this software, students were asked to pick a location anywhere in the world and use QGIS to create a map identifying notable locations, and forms of transport within said location along with supplemental maps showing the orthographic view and the wider area beyond the chosen location. **(Fall, 2024)**

Solo Revit Project: Students were instructed to make a conventional house using the software Revit in the style desired by the instructor, this included having three floors, and living arrangements such as bathrooms, bedrooms, and other rooms required for a functional house. **(Fall, 2024)**

Group Revit Project: Students got into groups of 4 and were told to conceptualize and then, using Revit, construct a dream home. Students were required to meet outside of class to delegate tasks to complete said model and create a presentation and two-page paper outlining the house's features and the thought process behind them. In our case, my group constructed a home intended to be built out of the side of a mountain with the ability to house multiple people while also providing entertainment to the imagined rich owner. **(Fall, 2024)**

