Jose Wu

Josewu18@gmail.com | linkedin.com/in/jose-wu/

EDUCATION

The City College of New York (CUNY), New York, NY　　　　　　　　　　　　**GPA: 3.35/4**

Bachelor of Engineering, Civil Engineering – Structures　　　　　　　　　　　　**Expected**: 06/2023

EXPERIENCE

The City College of New York | CE Tutor | New York, NY　　　　　　　　　　**10/2020 – 01/2021**
- Prepared notes and problems prior to meetings based on students' needs, leading to 75% of the students to pass Mechanics of Deformable Bodies and Fluid Mechanics
- Established a dynamic environment with short-medium calculations problems, constant participation, and final review of topics

The City College of New York | Teaching Assistant | New York, NY　　　　　　**09/2019 - 01/2020**
- Generated weekly AutoCAD and written assignments involving civil engineering techniques, processes, structures, properties of materials such as concrete, wood and steel, drawing, and examining professional engineering/architectural drawings
- Graded assignments weekly, including detailed explanation regarding grading decisions and questions

PROJECTS

Water Network Design and Pump System | Project Leader　　　　　　　　　　**09/2020 - 12/2020**
- Led a team of three on the following system: sprinkler, residential water distribution, and redesign for high demand during fires
- Designed a water network with given hydrant tests values to select efficient pumps in WaterGEM
- Conducted meetings in zoom, created schedules in excel, and organized documents in google drive

Steel Bridge Competition | Treasurer / Drafter　　　　　　　　　　　　　　**09/2019 - 05/2020**
- Managed the budget of $3,250 reimbursement and drafted the funding proposal
- Assembled a team of eight to participate in a competition after a 4-year hiatus
- Drafted designs for the span, connections, braces, and supports and drawing the overall shape of the bridge

Data Analysis of New York Infrastructure | Project leader　　　　　　　　　　**09/2019 - 12/2019**
- Evaluated 40,000 data points across four NYC projects: construction, water quality assessment, design estimates for flood control dam, and crash data
- Utilized data analysis and RStudio to predict the time and cost of a project, calculated the correlation amount of different locations, return values, regression line, and the probability of multiple events
- Elaborated recommendations and estimations based on well-supported information to approach each situation

Structural and Site Plans, designing a building for Xspace | Project Manager　　**01/2019 - 05/2019**
- Led a team of seven for a building design section, drafted initial specifications (environmentally sustainable, optimize space) within reasonable cost, minimal maintenance, and material limitations
- Drafted in AutoCAD a floor plan, site plan, framing, cross sections, wall section, and elevation

LEADERSHIP ACTIVITIES

- **Civil Engineering Student Body Council** | Vice-President　　　　　　　　　　**09/2020 - Present**
  Developed with a selected group of students and CE department chair to create a better communication between students and professors, addressed specific concerns of CE class, and discussed solutions with the CE department chair
- **Concrete Canoe** | Mix Design Member (2019) | Vice-President (2020)　　　　　**09/2019 - Present**
  Elaborated the concrete mix with the mix design team for the Concrete Canoe Competition (2019 and 2020), taken leadership responsibilities as the vice-president (2020)
- **American Society of Civil Engineers (ASCE) |** Member　　　　　　　　　　**09/2018 - Present**
  Completed the Engineering Leadership Certificate Program, represented ASCE school chapter in the Annual ASCE conference (2019) and engaged in virtual Student Days from Construction Institute (2020)

QUALIFICATIONS

- **Software:** Proficient in Microsoft Office (Word, Excel, Power Point), AutoCAD, C/C++, RStudio, Matlab, SAP2000 (Basic)
- **License:** OSHA 30
- **Languages:** English (Fluent), Spanish (Fluent)
- **Relevant Coursework:** Introduction to Engineering, Structural and Site Plans, Statics, Data Analysis, Mechanics of Deformable Bodies, Transportation Planning, Structural Analysis, Computational Methods in CE, Hydraulic Engineering for CE.