

WILSON CHAFLA

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EDUCATION

New York University Tandon School of Engineering Brooklyn, NY
Master of Science, Civil Engineering (Concentration: Structural Engineering) June 2023

The City College of the City University of New York New York, NY
Bachelor of Engineering, Civil Engineering, Cum Laude January 2021

Relevant Coursework: Advanced Reinforced Concrete Design, Structural Steel Design, Structural Analysis, Finite Element Analysis, Civil Engineering Management, Soil Mechanics, Structural and Site Planning

SKILLS

Programming Languages: MATLAB

Design Software: AutoCAD, SAP 2000, CSiBridge, Revit

Applications: Microsoft Suite (Word, Excel, and PowerPoint), Bluebeam Revu

Languages: Spanish

EXPERIENCE

NYCDOT – Roadway Repair and Maintenance New York, NY
College Aide – Technical Services 6/19-Present

- Conduct topographic surveys to assess street grading affected by ponding ranging from **300-1000 feet** in length at locations all throughout New York City
- Develop **AutoCAD** street plans showing roadway alignment and utilities from field survey data that improves efficiency of preliminary project submissions by **28%**
- Perform calculations through **Microsoft Excel** to optimize street grading for ponding issues
- Test asphalt samples to meet NYCDOT quality control standards

PROJECTS

Senior Design Project (*The City College of New York*) Spring 2020

- Reviewed flyover ramp within the Hunts Point Interstate Access Improvement Project in collaboration with transportation, environmental, and structural design teams
- Designed eleven unique pier caps in accordance with AASHTO LRFD Bridge Design Specifications and **ACI 318-14**

Finite Element Analysis of a 3-Span Bridge (*The City College of New York*) Spring 2020

- Built a 3D model of Bridge No. 150190 in Pinellas County, Florida using **CSiBridge**
- Reviewed bridge plans to ensure accuracy in sizing of substructure and superstructure components
- Performed linear-elastic analysis for bridges to sustain dead, live, wearing surface, and settlements loads

Structural Steel Member Analysis Spreadsheet (*The City College of New York*) Fall 2019

- Developed a **Microsoft Excel** spreadsheet capable of analyzing a user selected tension member, compression member, bending member, and beam-column
- Prepared Excel spreadsheet for general user input to ensure analysis was completed in accordance with **ANSI/AISC 360-16**

Concrete Building Design Project (*The City College of New York*) Spring 2019

- Determined design loads and performed load combination analysis using **ASCE 7-10** for a single-story building meant for laboratory use
- Designed concrete beams, slabs, columns, footings, and corresponding reinforcement sizes and spacings in accordance with **ACI 318-14**