

MIKHAIL BROOMES

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EDUCATION

B.E., Earth System Science & Environmental Engineering, The City College of New York, New York NY: **May 25th, 2023**

A.S., Engineering Science, Borough of Manhattan Community College, New York, NY: **May 25th 2019**

RELEVANT COURSES

Construction Project Management, AutoCAD, Bluebeam, ReVit, Data Analysis, Structural and Site Plans, Statics, MATLAB, GIS, Engineering Design, Environmental Impact Assessment,, Hydrology, Hydraulics, Phase I Site Assessment

QUALIFICATIONS

Certifications: OSHA-30 HR, 10-HR SST, ASTM Phase I Site Assessment Certification

Design Software: AutoCAD Civil 3D, REVIT, Bluebeam, Primavera 6, R Studio, ArcGIS, MATLAB

Applications: Microsoft Project, Word, Excel, and PowerPoint

Key Skills: Analytic/Problem solving skills, Interpersonal, Presentation, Organizational

Core Qualities: Detail oriented, Organizational skills, Interpersonal skills, Leader, Responsible

PROJECTS

Structural and Site Plan Design Project, Team Leader: Given a site, the team designed a facility according to given criteria that was specified by the client. The team considered feasibility, structure, and design. AutoCAD and Revit were used. Design was then presented to compete against other teams' designs for the bid to build. **(Fall Semester, 2019)**

Bluebeam Project : Given a site, I was responsible for performing takeoffs using Bluebeam software to estimate the quantities of materials needed for the project. My tasks included measuring the length, width, and height of walls, doors, windows, and other construction elements, and inputting the data into the Bluebeam software to calculate the required materials.. **(Spring Semester, 2023)**

EXPERIENCE

NYCDOT Traffic Operations, Engineering Intern: Responsible for assisting in the design of Accessible Pedestrian Signal (APS) installation under the direct supervision of the director for the Signal Design Unit. Responsible also for assisting in site surveys and field meetings with contractors to discuss projects. Responsible for completing street lighting calculations using visual lighting software. Responsible for developing cost estimates for construction projects. **(June 13th 2021 - Present)**

AFFILIATIONS

Member, American Society of Civil Engineers, The City College of New York, 2020 – Present

Member, National Society of Black Engineers, The City College of New York, 2020 – Present

