

# Alexander L. Moreno

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## Objective

I am a passionate and driven sophomore civil engineering student who values the diversity of perspectives. I have an array of experiences from the view of structural engineers, project managers, architects, mechanical engineers, fabricators, and contractors through my activities, giving me better ability to understand their view points.

## Education

B.S. in Civil Engineering, Columbia University, New York, New York.

Expected Graduation: **May 2023**

Concentrations in Construction Management and Structural Engineering

**GPA: 3.59**

## Engineering Technical Work

**Amtrak** (Project Management Intern - Real Estate Development Group) 1/2021 - Present

- Developed project control resources like risk registers, cost estimates, spend plans, and project charters for over \$100 million of major stations development projects across the Northeast Corridor
- Took advantage of opportunities to learn more about Amtrak and get more involved, including gaining necessary certifications to work around the right of way safely.

**Engineers With Borders** (Structures Team Lead) 9/2019 - Present

- Designed a ferrocement water storage tank using a parametric sheet and various CAD softwares
- Optimized function, strength, cost, and construction schedule
- Organized project schedule, material logistics, labor distribution, etc. for in-country construction
- Connected and worked with professionals to acquire new insights on the project

**AISC Steel Bridge Team** (Welder) 10/2019 - Present

- Working in Carleton Lab while learning about bridge design and contributing design ideas.

**COVID-19 Transit Safety Design Challenge** 6/2020 - 9/2020

- Designed a system of hooks and loops to make mass transit safer during the pandemic.
- Selected as a winner for the transit design challenge category

## Campus and Community Involvement

**American Society of Civil Engineers** (Vice President - External) - Organizing events, developing social media, and leading class of 2023 outreach, resulting in greatly increased sophomore attendance.

**Structural Engineers Association of New York** (Secretary/VP) - Meeting professionals, attending lectures, and joining events like Structures Impossible, a civil engineering design challenge competition.

**Society of Hispanic Professional Engineers** (Member) - Networking with other Hispanic Engineers while attending lectures and webinars about the construction industry.

**Matriculate** (Advising Fellow) - Advising high school students through the college process.

**Lakewood Estates** (Lifeguard) - In charge of admissions and Lifeguarding duties 2018-20.

## Skills and Strengths

**CAD** - 5+ years of experience with various CAD programs, with strong experience in AutoCAD and SolidWorks. Peripheral knowledge of SAP2000, Revit, Robot Structural Analysis, and Advance Steel.

**Basic Architecture** - AutoCAD and Revit used to design two floor colonial, including floor plans, elevations, electrical, and roof, in an introductory architecture course.

**Manufacturing** - Proficient with 3D Printing, laser cutting, welding, steel machining, hand tools, etc.

**Languages** - Basic knowledge of Spanish and python.

**Microsoft Office** - Strong knowledge of Microsoft Word, Powerpoint, Excel, etc. used in coordination with EWB for calculations, physics lab for data analysis, and various other projects.

## Recognitions

Hispanic Scholarship Fund Scholar, YLI Mentor, and NLC Participant, 2020

Columbia University Davis Scholar, 2019

Robert Swart Engineering Scholarship, 2019

Bausch + Lomb Honorary Science Award, 2018

Underclassman Award in CAD, 2016