

Derrick Tang

22 Bay 26th Street, Brooklyn, NY 11214 • (929) 287-1215 • derrick.tang@cooper.edu

EDUCATION

Cooper Union for the Advancement of Science and Art, New York, NY

Bachelor of Engineering, Civil Engineering, Projected Graduation May 2024

Half Tuition Scholarship, 2020-2024

Overall GPA: 3.6

Chi Epsilon Honor Society, 2021-Present

Course Highlights: Civil Engineering Fundamentals, Introduction to Geotechnical Engineering, Structural Engineering

PROJECTS

Bridge Project, Structural Engineering

Fall 2022

- Designed preliminary bridge and connection drawings using CAD software
- Inputted design into Robot to minimize deflections, redundancy, stress, and strain
- Accelerated the fabrication of aluminum members and steel connections

Conservatory Garden, Engineering Design Graphics

Fall 2022

- Envisioned and modelled a conservatory garden with Autodesk Revit
- Created sheets, renderings, topography, landscaping, perspectives, and annotations
- Presented a two-minute walkthrough displaying the lobby and garden

Watersports Dock Rehabilitation, Civil Engineering Fundamentals

Spring 2022

- Collaborated with four peers through the team discussions and engineering design process
- Led the drafting and design of the floating devices to provide adequate buoyancy using CAD software
- Wrote a 55-paged proposal including project outline specifications, project schedule, and cost estimation
- Reported our final bid proposal and design through a 15-minute presentation

Bioswale Design, Engineering Design & Problem-Solving

Fall 2020

- Composed a semester long project management timeline on Excel to adequately meet the deadline
- Spearheaded the 2-D draft of the bioswale using CAD software
- Calculated the cost estimate with the volume of the bioswale and average price of concrete
- Documented and presented the research and final design through a formal video presentation

WORK EXPERIENCE

Shmerykowsky Consulting Engineers, New York, NY

May 2022 – Aug 2022

Structural Engineer Intern

- Drafted detail, framing, and section plans of commercial buildings using CAD software
- Executed structural analysis of stairs and floors with RAM software
- Transferred comments onto shop drawings through PDF text editors

Excel Learning Center, New York, NY

Nov 2018 – Aug 2021

Teaching Assistant & In-person Volunteer

- Supervised 15 children, ranging in age from 8-11, in-person and remotely at the Excel Learning Center
- Assisted students with math, reading, and writing homework provided by the tutoring center
- Made an Excel database to organize exam and essay scores for teachers

SKILLS

User Certified: AutoCAD (May 2019), Inventor (May 2017)

Software: Autodesk Revit, Autodesk Robot, Google Apps, HEC-HMS, HEC-RAS, MATLAB, Microsoft Office Suite, RAM Elements, RAM Structural