

# THEO MANTZ

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Structural Engineer — Amateur Developer

Brooklyn, New York

## EXPERIENCE

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### **Fast + Epp, New York, NY**

*August 2019 - October 2020*

*Graduate Engineer*

- Utilization of holistic design approaches and methods to achieve the architectural vision of the structure while offering innovative, and creative solutions to maximize efficiency and minimize cost.
- Design of mass timber low and mid-rise residential and commercial structures utilizing prescriptive design techniques in the National Design Specification (NDS) and applicable provisions of the International Building Code (IBC).
- Analysis and design of mass timber shear walls, connections, and diaphragms, utilizing National Design Specification (NDS) techniques as well as more novel design techniques available in EuroCode.
- Design of steel low and mid-rise commercial structures utilizing American Institute of Steel Construction (AISC) Steel Manual and applicable design guides.
- Utilization of ETABs structural modeling software to develop realistic deflection, and modal response data for complex structural systems containing multiple categories of lateral force resisting elements.
- Design of concrete structures utilizing techniques and code provisions provided in American Concrete Institute (ACI).
- Design of post-tensioned concrete structures to the Schematic Design phase.
- Drafting of complex details and connections in REVIT. Completion of tasks from design idea inception through deliverable.

### **DeStefano & Chamberlain, Fairfield, CT**

*January 2019 - August 2019*

*Engineer*

- Design of high end residential structures utilizing mixed materials to achieve architectural vision.
- Thorough drafting of details in AutoDesk REVIT. Design process seen through inception to deliverable.
- Design of simple steel framing floor systems and columns.
- Extensive time spent in field performing structural evaluations, and supervising field construction of critical components.
- Design of post-tensioned concrete structures to the Schematic Design phase.

### **Millstone NPS, Waterford CT**

*Summer 2018*

*Engineering Intern — Design Engineering*

- Updated Unit 2 pipe support database of over 5000 entries to include stress isometric drawings.
- Worked with Senior Engineers to qualify five novel steel pipe supports.
- Worked with Senior Engineers to develop a steel restraint system to prevent the total failure of a cracked piping flange.

### **Millstone NPS, Waterford CT**

*Summer 2017*

*Engineering Intern — Civil/Structural Design Group*

- Completed structural analysis of Turbine Building flooring system.
- Reviewed structural steel fabrication drawings for the Station Cooling Water Discharge Canal Refurbishment Project.

## EXPERIENCE — CONTINUED

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### **Mantz Construction, Fairfield CT**

*August 2012 - December 2018*

*Project Manager - Construction*

- Reviewed and executed site plans. Directed and coordinated teams of sub contractors to ensure project stayed on schedule and budget.
- Coordinated between client and architect, ensuring accommodations to each parties needs.
- Ensured project materials were delivered on time to avoid unnecessary stoppage of work.

## EDUCATION

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### **Central Connecticut State University**

*August 2015 - Present*

B.S. Civil Engineering, 2019

Department of Engineering

Dean's List Fall 2018 & Spring 2019

## SOFTWARE PACKAGES & CODE

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ETABs

TEDDs

SAFE

ADAPT PT/RC

ADAPT Builder

AutoDesk REVIT

AutoDesk AutoCAD

Microsoft Office Suite

Python3

Visual Basic

MathCAD

## RELEVANT COURSES

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### **Core Courses**

Structural Analysis I & II

Reinforced Concrete Design

Finite Element Analysis

Soil Mechanics

Transportation Engineering

### **Other Courses**

Computational Methods in Engineering

Structural Steel Design

Foundation Engineering

Calculus I & II

Mechanics of Materials

## EXTRA-CURRICULAR

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Vice President, ASCE — Central Connecticut State University, 2018 - 2019

Member, ASCE — Central Connecticut State University, 2015 - 2019

Participant, ASCE Concrete Canoe Competition — Central Connecticut State University 2018

Coach, Danbury Pop Warner Football — Danbury CT, 2010 - 2012