

Molly O'Toole, EIT

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PROFESSIONAL SUMMARY

EIT-certified Structural Engineer with almost 3 years of full-time structural design experience. Awarded Northern RI's ACE Mentor of the Year 2019 for dedication to engaging high school students, many BIPOC & ESL, in hands-on activities related to the structures industry. Seeking role in the Greater Boston area with potential to explore interest in design and analysis of new and rehabilitated structures of various materials while continuing to volunteer in similar programs. Strives to earn SE/PE license in 2021.

RELEVANT EXPERIENCE

STRUCTURAL ENGINEER | ODEH ENGINEERS | JUNE 2017 – MARCH 2020

- Design structural layouts for gravity and lateral systems using engineering judgement
- Analyze and refine structures in RAM, ETABS, and SAFE; perform hand calculations as needed
- Model and detail conditions in Revit to be issued as structural construction documents
- Communicate clearly with architects and trades to proactively fix issues before construction phase
- Review shop drawings and devise solutions to RFI's during construction administration

STRUCTURAL ENGINEER INTERN | ODEH ENGINEERS | MAY 2015 – AUGUST 2016

- Create Revit models of existing buildings for renovations using original drawings
- Operate laser scanner and use the point cloud to create a Revit model of the structure

CONSTRUCTION ENGINEER INTERN | MASSDOT | JUNE 2014 – AUGUST 2014

- Learn and utilize bridge plans for two essential bridges in the Cape Cod, MA area
- Observe major construction operations: rebar placement, concrete deck pour, setting H-piles, etc.

PRACTICAL SKILLS

SOFTWARE - Revit, Bluebeam, RAM, ETABS, SAFE, SAP2000, AutoCAD, Matlab, Mathcad

DESIGN CODES & STANDARDS - AISC Steel Manual ed.14 & 15, ASCE 7-10 & 16, ACI 318-14, IBC 2012

STRUCTURAL SYSTEMS – Steel Frame, Masonry, Concrete Foundation, existing Terracotta Flat Arch, existing Concrete Joist, some Podium/Wood experience, some Concrete superstructure experience

EDUCATION

MS STRUCTURAL ENGINEERING | MAY 2017 | TUFTS UNIVERSITY

- Highlighted coursework: Advanced Steel Design, Advanced Structural Analysis, Bridge Design & Rehabilitation, Structural Dynamics & Earthquake Engineering, Inelastic Composite Materials

BS CIVIL ENGINEERING, STRUCTURES | MAY 2016 | UNIVERSITY OF NOTRE DAME

- Highlighted coursework: Civil Engineering Materials, Dynamics and Modeling, Reinforced Concrete Design, Structural Steel Design, Structural Analysis, Structural Systems, Bridge Engineering
- First Place Overall PCI Big Beam Competition 2016: Team collaborated to design, construct, and test a reinforced prestressed concrete beam. Produced video submission.

BA PHYSICS | MAY 2016 | STONEHILL COLLEGE

- Part of a 5 year dual degree program between Stonehill and Notre Dame
- Highlighted coursework: Engineering Statics, Mechanics of Solids, Computer Science I & II