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## EDUCATION

**Clemson University**, Clemson, SC, USA

Ph.D. in Civil Engineering with emphasis in Structural Engineering, May 2018 (expected)

**Central American Technological University**, Tegucigalpa, Honduras

Master's in Structural Engineering, September 2011

Summa Cum Laude, Valedictorian

**National Autonomous University of Honduras**, Tegucigalpa, Honduras

Bachelor's in Civil Engineering, April 2009

## PROFESSIONAL EXPERIENCE

**Private structural engineering firm of Joaquín Torre**, Tegucigalpa, Honduras

Consultant in Structural Mechanics, 2011-2015

- Worked as one of two engineers in the top structural engineering firm in Honduras.
- Executed structural design and redesign of both small- and large-scale engineering projects, including residential and commercial buildings, bridges, and hydroelectric powerhouses.
- Constructed mathematical models for structural analysis, performed calculations, created structural drawings, and prepared reports for public and private clients.
- Coordinated with architects, property owners, and MEP engineers to accomplish projects.
- Inspected structures under construction in the field.

**GeoConsult S.A.**, Tegucigalpa, Honduras

Assistant Engineer/Field Engineer, 2009-2011

- Worked in most accomplished geotechnical engineering firm in Honduras.
- Completed structural design of airport control tower and water park.
- Designed the retrofit of residential buildings and retaining walls.
- Designed retaining walls using soil nailing for underground levels in buildings.
- Led a construction team in the field to implement retrofit designs and retaining walls using soil nailing.

## TEACHING EXPERIENCE

**Central American Technological University**, Tegucigalpa and San Pedro Sula, Honduras

- Taught Mechanics of Construction and Rehabilitation of Structures in the Structural Engineering Master's degree program (2012).

**Francisco Morazán National Pedagogical University**, Tegucigalpa, Honduras

- Taught Advanced Strength of Materials in the Technological Education Master's degree program (2012).

## PUBLICATIONS

- Martínez, M., Atamturktur, S., Ross, B., and Thompson, J. (In press), "Assessing the Compressive Behavior of Dry-Stacked Masonry with Experimentally Informed Numerical Models," ASCE Journal of Structural Engineering.
- Martínez, M., and Atamturktur, S., (submitted, in review), "Experimental and Numerical Evaluation of Reinforced Dry-Stacked Concrete Masonry Walls," Elsevier's Journal of Building Engineering.
- Martínez, M., Huygen, N., Sanders, J., and Atamturktur, S. (submitted, in review), "Thermo-Fluid Dynamic Analysis of Concrete Masonry Units via Experimental Testing and Numerical Modeling," Elsevier's Journal of Construction and Building Materials.

## HONORS AND AWARDS

Doctoral Dissertation Completion Grant 2018, Clemson University; The Kimley-Horn and Associates Graduate Fellowship 2017, Glenn Department of Civil Engineering, Clemson University; Paul and Helen Lenchuk Engineering Student Scholarship Program 2016 from National Concrete Masonry Association; The James L. Noland Student Fellowship 2015 from The Masonry Society; The Russell Brown Fellowship 2015, Glenn Department of Civil Engineering, Clemson University.

## ENGINEERING AND SCIENTIFIC SOFTWARE

AutoCAD, Civil 3D, Revit Structure, Staad.Pro, CSI Col, CSI ETABS, CSI Bridge, CSI SAP2000, CSI SAFE, Midas Civil, Midas Gen, Midas FEA, Midas GTS, ADAPT Builder, Mathcad, Matlab, ANSYS, ABAQUS, Concise Beam, AllPile, Rockscience Slide, GeoStudio, GEO5, Plaxis 3D, Visual Basic, C, C++, Python, Ram Concept, Ram Connections, Ram Structural Systems.