

Ana Clara Rios Gouveia, E.I.T.

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69 Chelsea

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education

Harvard University Extension School, Cambridge, MA

2016 – 2017

Computer Science Coursework

University of Massachusetts Lowell, MA

2012 - 2015

M.S. Structural Engineering, Computation Focus - '15

GPA: 3.12/4.00

B.S. Civil and Environmental Engineering, Magna Cum Laude - '14

GPA: 3.83/4.00

Bunker Hill Community College, Boston, MA

2011 - 2012

A.S. Engineering, Highest Honors - '13

GPA: 3.98/4.00

Harvard University Extension School, Cambridge, MA

2009 - 2011

Sustainability, Writing and Economics Coursework

University of the State of São Paulo, São Paulo, Brazil

2007 - 2009

Civil & Environmental Engineering Coursework

research focus

Civil & Structural Engineering, Computation, Applied Mathematics, Optimization Techniques, Student Leadership, Innovation & Entrepreneurship, Community Engagement, Infrastructure.

experience

TLH Structural Consulting – Billerica, MA

Early 2018

Structural Engineer

Assisted with field consultations. Produced calculations for residential and commercial buildings according to MA regulations. Developed Revit drawings to specify structural modifications per client's requests and needs.

STV Incorporated – Boston, MA

2015 - 2017

Engineering Specialist I

Issued Richard P. Howe Bridge Rating. Longfellow Bridge analysis of temporary diaphragm removal due to bridge work. Attended meetings with Chinese contractors representing MBTA for the design and delivery of Boston's Orange and Red Line vehicles.

Geodynamica – Lowell, MA

Late 2014

Office Manager & Staff Engineer

Assisted with the compilation and analysis of field data. Provided support to business operation and office management. Collaborated in the drafting of reports.

Simpson Gumpertz & Heger – Waltham, MA

Mid 2014

Structural Engineering Intern

Performed calculations and structural analysis of a variety of structures and structural members. Designed typical details and structural members through the optimization of Excel spreadsheets. Collaborated in the development of reports and calculations.

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ASCE's Student Chapter - Lowell, MA

2013 - 2015

Web Developer & Mentor

Maintained a strong leadership role, organized professional enrichment opportunities for students. Designed ASCE's website to promote accessibility and content for a wide–range of users.

Bond Brothers – Everett, MA

Mid 2013

Construction Management Intern

Assisted with constructing administration by reviewing construction specifications and documents. Attended meetings and collaborated with client communications.

City Hall: Department of Development & Planning – Lowell, MA 2012 – 2013

Civil Engineering Intern

Assisted with general office and permitting tasks.

Skills Knowledgeable in Matlab, Revit, SAP.2000, Staad.Pro, AutoCAD, Excel, GTStrudl, RAM, RISA,

Mathcad, Abaqus, Qlik Sense, Tableau, R, RStudio, Fortran, C++, CSS, HTML, Python, PHP, Microsoft

Office, VBA, MassDOT 4D Hwy Bridges, AASHTOWARE (former Virtis).

standards Proficient in AISC, ACI, NDS, IBC, AASHTO, ASTM and design methods for LRFD & ASD.

languages Fluent in Portuguese. Conversational in Spanish & German.

STV Incorporated 2015 – 2017

Projects

proposals

Boston's Northern Ave. Bridge - Boston, MA (Swing Span)

Assisted on several tasks on the proposal package. Compilated proposal materials. Developed and proposed structural drawings.

Owners Representative Data Analysis Program – Boston, MA

Collaborated with team on the compilation and presentation of data for the 28 largest construction projects in Massachusetts.

Boston's South Station Tower Design – Boston, MA

Assisted on several tasks related to development of a proposal package.

client-relations

Red & Orange Line Vehicles – Boston, MA

Attended meetings with Chinese contractors in behalf of MBTA to assist communications about the design, development and delivery of Boston's Red and Orange Line vehicles.

Andrew

McArdle Bascule Bridge – Boston, MA

Developed bridge grid deck inspection & memorandum draft.

Belden Bly Lift-Span Bridge Design – Boston, MA

Assisted Senior Structural Engineer with the development of a bridge's drawings according to MassDOT requirements.

Fore River Movable Bridge – *Boston, MA*

Assisted with fast compilation of project data.

North Washington Swing-Span Bridge - Boston, MA

Assisted with the rating of bridge's south leaf members. Attended pre-construction meeting with City of Boston Structural Engineer.

3RIDGES

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Technical

Longfellow Bridge – Boston, MA

Boston's 1,760ft – 11 span – Steel arch and framing system/Salt & Pepper.

Temporary diaphragm-removal and bracing analysis. Calculated dimensions for the crane's base plates. Assisted structural engineering staff with several other temporary works tasks, related to technical, construction, and project marketing including conference's presentation design and support. Reviewed construction submittals.

Richard P. Howe Bridge – Lowell, MA

A (520ft) [2]-260ft continuous span, 4-Deck truss bridge located over the Merrimack River.

Developed a 970-page bridge rating report, including complete analysis as required by MassDOT. Developed Excel spreadsheet for bridge rating analysis. Expanded spreadsheet to updated analysis and rating of the bridge's interior and exterior gusset plates. Coordination of bridge site visit.

Westfield Main & Sister Bridges – Westfield, MA

Two (360ft) 2-continuous span, Through truss bridge located in Westfield, Mass.

Bridge rating completion scheduling. Developed and updated based on current regulations the Gusset plates rating update spreadsheet based on AASHTO BME. Collaborated with Senior Structural Engineer and interns for the complete development of reports along with their delivery. Bridge rating drawing, carry deck calculations and reports.

Boston Bridges – Boston, MA

Assisted with inspection, field visits, drawings and reports in several of the city owned structures.

Andrew Mo Ardle, North Washington, Northern Ave & Others.

Connecticut Rail Bridges – Lowell, MA

Assisted with compilation of the Connecticut Rail Bridges inventory. Developed bridge inspection software as part of Harvard University Fall 2016 coursework.

Massachusetts State Bridge's Inspections – Lowell, MA

Coordinated with Professional Engineer for the inspection, field visits, development of several types of bridge drawings. Developed reports for several of the state-owned structures. (PM, 9E, 5E - 76m)

Massachusetts School Buildings Authority (MSBA) K-12 Public Schools Assessment - MA Assisted project manager with technical and computer related issues. Collaborated with inter-firm's staff to ensure the team had a consistent and comprehensive understanding of the project. Assessed 85 school buildings in Massachusetts, Developed building software as part of venture—owned initiative.

MBTA Wellington Carhouse – Boston, MA

Designed dunnage frame based on the optimization of material, connections and costs. Collaborated with team on the drafting of structural engineering drawings and details. Assisted with the development of a proposed design load analysis and structural calculations (Sap. 2000, Stand Pro, Excel)

Additional list of projects and tasks available upon request.

- WRTA, (8 ...)

Simpson Gumpertz & Heger (SGH)

2014

Projects

Summer Boston Society of Architectures (BSA) Structures Lectures – Boston, MA marketing

> Assisted in several tasks on the proposal package. Compilated proposal material. Developed proposed structure drawings.

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client-relations Pella Window Investigation - Wisconsin, WI

Traveled to out-of-state site to assist client with building envelope and Pella products quality investigation. Drafted report for Senior Engineer.

St. Paul School & Philips Academy – Boston, MA

Reviewed structural steel shop drawing.

Technical

Westin Hotel (Building) – Boston, MA

Boston's Waterfront Hotel, Underground Parking Lot Structural Repair Work

Assessed steel-members deficiency computation. Worked with original building drawings in AutoCAD to determine the building's load. Assisted structural engineering staff with RAM analysis and evaluation of members.

Windsor Pipe Repairs (Infrastructure) – Windsor, Canada

Assisted with development of complete CAD drawing set for pipes repair.

Atrium Mall (Building) – Newton, MA

Chestnut Hill Mall Structural Analysis and Design Work

Utilized RAM to obtain current structure data. Developed railing load analysis. Developed and updated based on current regulations a Steel Reinforcement spreadsheet. Collaborated with Senior Structural Engineer for comprehensive development of calculation. Designed Excel spreadsheets for beam reinforcements based on RAM data, assigns appropriate connection (bolts and/or welds). They also allowed the user to obtain optimized beam shape based on DCR. Developed three reinforcement beam drawings as part of the structural design package. Performed Seismic Analysis of 2-Tower Additions to building.

Expo China Pavilion (Building) – Italy

Assisted with structural design having done several drawing mark-ups. Collaborated with CAD staff in between Boston and NYC team.

Forefront (Parking Garage) – Waltham, MA

Assisted with compilation of the field data on the structure; mostly around the concrete parking deck evaluation.

Union Station Rail Tunnel Leakage Investigation – Worcester, MA

Coordinated with Professional Engineer for the inspection and field visit. Assisted with the development of notes based on leakage investigation.

74 Grand Street (Building) – New York, NY

Assisted with the development of waterproofing design drawings and other CAD mark-ups.

Hudson Yard Towers - New York, NY

Assisted Senior Engineers with the development of drawings for Below Grade Waterproofing.

Courtyard (Building) – New York, NY

Assisted Senior Drafter with the development of drawings. Aided the Engineers mark-ups.

Equinox Fitness (Building) – New York, NY

Assisted Senior Engineer with the development of drawings for openings in ramp walls.

MIT Garages W45, E62, Stata and N4 / Fargo (MIT Parking Garages) – Cambridge, MA

Assisted with the construction administration, project submittal monitoring, review and bookkeeping of general documentation and project needs such as meetings. Drafted weekly reports for the projects.

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Loui (Infrastructure / Dynamic Load Monitoring) – USA

Assisted Senior Engineer with the monitoring of explosive blasts nearby American infrastructure.

Merrymount (Building) – Quincy, MA

Assisted Senior Engineer with the development of structural drawings for 4-story wood and steel building.

Gainsborough Leakage Investigation (Northeastern University Garage) - Boston, MA

Assisted Senior Engineer with the roof and second floor surveying, data analysis and slabs deflection calculations.

Porte Liberte III Leakage Investigation (Building) – Boston, MA

Assisted Senior Engineer with the development of drawings for openings in ramp walls.

Towers on The Park - New York, NY

Assisted Senior Engineers with the development of drawings, project quantity, take-off and memorandum drafting.

Hyatt Building Envelope Consultation (Building) – Boston, MA

Assisted Senior Engineer with CAD drafting.

Hynes Convention Center (Building) – Boston, MA

Assisted Senior Engineer with roofing repairs, tasks ranged from CAD drafting and other construction administration tasks.

Basilica of St. Patrick's Old Cathedral (Building) – New York, NY

Assisted Senior Engineer with the drafting of project.

Winchester Hospital (Building) – Winchester, MA

Reviewed Senior Engineer's pile take-off calculations.

Emerson Hospital (Building) – Boston, MA

Assisted with the construction administration, project submittal monitoring and review.

Additional list of projects and tasks available upon request.

University of Massachusetts Lowell

2012 - 2015

Academic Experience

PDEs Circular Foundation	Settlement Solver	2015

Numerical Methods (Matlab / FEM / Report Available)

David J. Willis

Practice of Structural Engineering 2015

5–Story Building Analysis & Design (Mathcad / Excel)

Susan Faraji

New Venture Plan Pahk 2015

Business Plan & Project Development Researcher (Presentation Available)

Tom O'Dohnell

Advanced Steel Design Project

Manager of 2–Story Steel Building (Excel / Report and Presentation Available)

University of Steel Design Grading Assistant

2014

Graded the homework of over 80 students.

Paul de Stefano

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www.github.com/anagouveia1