

MARIA CORINA PORADA, P.E.

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PROFESSIONAL EXPERIENCE

PICKERING FIRM, Memphis, TN

2015 – 2020

Senior Structural Engineer

Analysis, Design, and Inspection

- Design new buildings, building expansions, retrofit work on existing buildings, and miscellaneous structures
- Analyze existing structures for new loading/use or for reduced capacity due to damage or deterioration
- Prepare construction documents including drawings and technical specifications for permit and bid
- Inspect existing structures to assess structural condition
- Prepare inspection reports summarizing observations, load rating analysis if applicable, conclusions, and recommendations for continued or future use

Construction Administration

- Respond to questions by contractor or client to address unforeseen problems encountered in the field
- Review shop drawings and submittals

Mentorship/ Student Outreach

- Whitehaven Elementary 2018 STEM Expo- Engaged students with hands-on activities to illustrate basic engineering principles
- St. George's Career Day at Pickering – Presented overview of our firm and discussed careers in engineering and architecture; developed and guided students through a design activity to simulate a real-world engineering project
- Maxine Smith STEAM Academy visit to Pickering – Presented overview of our firm and individual engineering disciplines; participated in question and answer session

JOHNSON, MIRMIRAN, AND THOMPSON, Sparks, MD

2013 – 2014

Structural Engineer

Analysis, Design, and Inspection

- Designed new structures and retrofit work on existing buildings
- Performed load rating analysis for existing structures
- Inspected existing structures to assess structural condition
- Prepared inspection reports summarizing observations, conclusions, and recommendations for continued or future use

MOFFATT & NICHOL, Baltimore, MD

2003 – 2009

Marine Structural Engineer

Analysis and Design

- Designed new waterfront structures, repairs for the rehabilitation of existing waterfront structures, and miscellaneous land-side structures
- Conducted 12-month monitoring program to determine efficacy of a repair to deteriorating concrete piles. Collected and analyzed data. Prepared report summarizing results and recommended the repair for strengthening other piles exhibiting similar characteristics
- Rated numerous existing waterfront structures for load capacity and prepared reports summarizing analysis, results, and design recommendations
- Prepared construction documents including drawings, technical specifications, and cost estimates for permit and bid

Inspection

- Inspected existing waterfront structures topside and at water level to assess structural condition
- Prepared reports summarizing observations and repair recommendations as needed to halt continued deterioration and restore original load capacity of structures

Construction Oversight

- Collaborated with contractors to oversee construction of waterfront and land-side projects by conducting regular site visits, responding to contractor questions, and addressing problems encountered in the field.
- Facilitated communication among contractor, client, and design team through regular progress meetings
- Reviewed shop drawings and submittals

Project Management

- Directed several government and private construction projects through design, bid, and construction phases
- Assessed and met evolving needs of client, Maryland Port Administration (MPA), resulting in two open-ended repair contracts for miscellaneous port facility repairs. Collaborated closely with client to develop scope of work and cost estimate for each repair type. Partnered with multiple contractors to complete repairs effectively and efficiently.
- Worked closely with operations personnel to minimize impact on ongoing activities surrounding construction site (i.e. vessel loading/unloading, warehouse operations, etc.)

PARSONS BRINCKERHOFF, Pittsburgh, PA

2001 – 2003

Engineer in Training

Analysis, Design and Inspection

- Designed/analyzed miscellaneous structural components
- Prepared cost estimates for projects
- Reviewed shop drawings
- Assisted in bridge inspections

EDUCATION & PROFESSIONAL LICENSURE

Ph.D Student in Civil Engineering, Concentration in Civil Infrastructure Systems
UNIVERSITY OF DELAWARE, Newark, DE

Master of Science in Civil Engineering, Concentration in Structural Engineering
CORNELL UNIVERSITY, Ithaca, NY

Bachelor of Science in Civil Engineering, Concentration in Structural Engineering
JOHNS HOPKINS UNIVERSITY, Baltimore, MD

Professional Engineer, Maryland

DESIGN SOFTWARE

STAAD Pro, Ram Elements, Eneclac, AutoCAD, Revit

OTHER SOFTWARE

Microsoft Office Suite

PROGRAMMING LANGUAGES

Python

PROFESSIONAL ASSOCIATION

Member, American Society of Civil Engineers (ASCE), 2002 – 2020
Structural Engineers Association (SEA), 2015 – 2020

VOLUNTEER ENGAGEMENTS

WSE Mentoring Program, Johns Hopkins University, 2019 to present

WSE Alumni Leadership Committee, Johns Hopkins University, 2018 to present

World Relief Memphis Mentoring Program, 2020 to present