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## PROFILE

Dedicated and experienced Structural Engineer with extensive knowledge of engineering principles, theories, specifications, and standards. Spent more three years at WSP, a leading engineering firm (ENR #7 in 2020) at increasing levels of responsibility, including cost estimation, QA/QC and deputy project management. Bringing leadership, drive, and versatility to the table. Experienced in providing services in Transportation and Infrastructure as well as Building and Property. Self-motivated, dependable, team player, quick learner, and problem solver with high technical expertise in structural engineering. Prepared to apply my Masters in Structural Engineering and Engineering Management degrees and broad experience to a wide range of projects.

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## EMPLOYMENT HISTORY

Jan 2020 – May 2020

Chicago, IL

### Assistant Engineer, Buildings and Property Department

- 400 N Aberdeen
  - Designed a 35-ft tall Steel Screen Wall for cladding purposes in compliance with ASCE 7-14 Wind analysis.
  - Performed analysis for Screen Wall support framing and columns along with design of base plate using SAP2000.
- 732 W Randolph
  - Designed Reinforced concrete slab for a 8-story concrete building using RAM Concept.
  - Prepared design calculation for the Peer Review.
- Old Post Office
  - Utilized RAM Steel for composite Floor design with new framing to support spiral staircase.
  - Designed composite deck, steel framing and columns for partial mezzanine upon existing floor.
  - Coordinated with the CAD team for Issue Permit and multiple submittals.

Dec 2016 – Jan 2020

Chicago, IL

### Structural Engineer I, Movable Bridge Department

- PTB 190, Item 39: Various Statewide Bridge Load Rating - *IDOT*
  - Served as the Deputy Project Manager and performed load rating of various IDOT bridges using AASHTOWare BrR, based on IDOT load rating standards.
  - Produced Structural Inspection Report (SLRS) and calculation packages for submittal.
- I-55 (Phase 1): Chicago, Illinois - *IDOT*
  - Prepared a Bridge Condition Report (BCR) to consider the conditions and options for the rehabilitation or replacement of dual bridge structures
  - Prepared design calculation for the Peer Review.
- Cass Street: Joliet, Illinois – *IDOT*
  - Performed fractural critical inspection of the bridge superstructure for the purpose of load rating the Bridge.
  - Analyzed the stringer for load rating of the Bridge.
- Webster Avenue: Chicago, Illinois - *CDOT*
  - Led the design of Superstructure Floor System including Floorbeams, Roadway/Sidewalk Stringers and Sidewalk Bracket repairs in accordance with AASHTO LRFD design manual.
  - Prepared the CADD files using ProjectWise and led the production of steel quantity for cost estimation.
- Brandon Street: Joliet, Illinois – *IDOT*
  - Inspected Fracture Critical Members such as Jack Columns, Bascules Girders and Floorbeam/Stringers.
  - Generated repair plans for repair work Jack Columns, Bascules Girders and Deck.
- Abraham Lincoln Memorial Bridge Route I-39: Peru, Illinois – *IDOT*
  - Assisted in inspecting the Main Tied Arch and lateral structural system.
  - Inspected approach superstructure and underwater sonar boat inspection for Pier Scouring.
- Ruby St. and Jackson St., Joliet, Illinois – *IDOT*
  - Performed NBIS, element level and fracture critical inspection of Ruby St. Bridge and Jackson St. Bridge.
  - Analyzed the superstructure of Jackson St. Bridge and load rated the floor beams and stringer.
- Jane M. Byrne (formerly the Circle Interchange) I-90/94 and I-290/Congress Parkway, Chicago, Illinois - *IDOT*
  - Assisted in completing the design and rehabilitation of various structural components including the superstructure.
  - Led the preparation and production of quantity calculations, cost estimates.
  - Provided field support through Request for Information response and shop drawing review.

- I-290 over Salt Creek: DuPage County, Illinois - *IDOT*
  - Utilized LEAP Conspan for the designed PPC 48" I Beam as part of the superstructure.
  - Designed integral abutments using LARSA 4D for the 3-span prestressed girder bridge.
  - Drafted and detailed approach span, prestressed girder(s) and integral abutment in accordance with the IDOT Base files.
- US 67/308 Centennial Bridge: Rock Island, Iowa - *IDOT*
  - Inspected the 29-span long bridge, steel beams as well as lateral structural system.
- Arlington Memorial Bridge, Washington D.C. – *Virginia DOT*
  - Responsible for Preliminary Design Build Pursuit of the rehabilitation.
  - Assisted in the preparation and drafting proposal plans for rehabilitation pursuit.
- Grosse Ile Parkway Swing Bridge: Grosse Ile, Michigan – *Michigan DOT*
  - Assisted in summarizing defects on bridge elements, photos, sketches of defects using MicroStation.
- Lake Shore Drive Bascule Bridge – *CDOT*
  - Led the quantity calculation for the structural items.
  - Assisted in drafting and preparing CADD work on lateral bracing, floor beam, east sidewalk deck plan and elevation
  - Provided field support through Request for Information response and shop drawing review.

May 2015 – August 2016

**Engineering Resource Associates, Structural Engineering Intern**

Champaign, IL

- Assisted in structural evaluation, analysis and/or design of structural elements of existing/new industrial and commercial buildings.
- Performed calculation for steel design, concrete design and wood design for existing/new structures.
- Drafted bridge design on AutoCAD and Microstation.
- Calculated cost and quantity estimates for project based on analysis of collected data.

**EDUCATION**

2019 - Present	Master of Engineering Management, University of Wisconsin-Madison
2016 - 2017	Master of Science in Structural Engineering, Illinois Institute of Technology
2014 - 2016	Bachelor of Science in Civil Engineering, University of Illinois-Urbana Champaign
2012 - 2014	Engineering Mechanics, Parkland College

**SKILLS**

**Analytical Skills:** Sound judgment, Decision making, excellent written and verbal communication, Detail-Oriented

**Software:** SAP2000, CSI Bridge Design, ETABS, MathCad, LEAP Concrete Conspan Bridge, AASHTOWare BrR, MicroStation V8i, Revit, AutoCAD, RAM Steel, RAM Concept, MS office.

**PROFESSIONAL MEMBERSHIP**

Structural Engineering Association of Illinois (SEAOI)  
 Government Affairs & Structural Engineers Political Action (GAC/SEPAC)  
 American Society of Civil Engineering (ASCE)

**LANGUAGES**

English (Full Professional proficiency), Gujrati and Hindi (Native proficiency)

**SERVICES**

Represented WSP at university Career Fair visits for recruitments.  
 Bridge Marshal/Judge for the National and Regional AISC Steel Bridge Competition, annually.  
 Judge for Bridge Building contest for Balsa Wood Bridge Competition, annually.

**REFERENCES**

Name	Position	Email	Phone
Kenneth Price	Vice President - Manager Complex Bridge Group Central Region	<a href="mailto:Kenneth.Price@wsp.com">Kenneth.Price@wsp.com</a>	312-294-5675
Mark Stephani	Central Region Tunnel Practice Lead	<a href="mailto:mstephani@hntb.com">mstephani@hntb.com</a>	312-798-0311
Irvin Lopez	Lead Structural Engineer	<a href="mailto:lopezij@cdmsmith.com">lopezij@cdmsmith.com</a>	787-523-8767