EMEKA ADEYEMI

STRUCTURAL BRIDGE ENGINEER

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Summary

PE-licensed bridge engineer with 11 years designing and rehabilitating highway and rail bridges with project values up to $220M. Expert in AASHTO LRFD, FHWA guidance, and load rating per MBE. Delivered 14 major bridge projects on schedule and under budget, reducing steel quantities by an average of 9% through optimization. Proficient in SAP2000, LARSA 4D, and BrDR.

Skills

AASHTO LRFD Bridge Design • SAP2000 / LARSA 4D • Load Rating (MBE) • BrDR / BrIM • MicroStation / OpenBridge
Prestressed Concrete Design • Steel Bridge Design • Hydraulics / Scour Analysis

Experience

Jacobs

Atlanta, GA

Senior Bridge Engineer

2018 – Present

Lead bridge design and rehabilitation projects for GDOT and FHWA programs.

- Designed 6 highway bridges on I-285 corridor totaling $220M; reduced steel quantities by 11% through composite girder optimization.
- Performed load ratings for 40+ existing bridges per AASHTO MBE, identifying 8 structures requiring immediate posting or posting removal.
- Led interdisciplinary coordination with geotechnical, hydraulics, and roadway teams on 5 projects, ensuring 100% on-time plan submittals.
- Mentored 4 junior engineers and 2 EITs on LRFD design principles and CADD production standards.
- Developed a bridge inspection data management workflow that reduced report turnaround by 25%.

AECOM

Charlotte, NC

Bridge Design Engineer

2013 – 2018

Designed steel and concrete bridge structures for NCDOT and municipal clients.

- Designed prestressed concrete girder bridges for 8 NCDOT projects ranging from $15M to $85M in construction value.
- Produced structural calculations, plan sheets, and specifications for 20+ bridge components using MicroStation and OpenBridge.
- Performed finite element analyses in SAP2000 for 3 complex curved bridge superstructures.
- Coordinated with utility relocation and environmental teams on 4 constrained urban bridge replacement projects.
- Reduced rework hours by 30% by implementing a QA/QC checklist integrated into the project delivery workflow.

Education

Georgia Institute of Technology

Atlanta, GA

M.S.

2013

Structural Engineering · GPA: 3.8

University of North Carolina at Charlotte

Charlotte, NC

B.S.

2011

Civil Engineering · GPA: 3.6

Certificates

PE License

State of California

Jan 2015

Licensed Professional Engineer in the State of California

SE License

State of New York

Jun 2018

Licensed Structural Engineer in the State of New York

Projects

Lead Structural Engineer

Golden Gate Bridge Seismic Retrofit — Jan 2019 - Dec 2020

Designed and analyzed the seismic retrofit of the Golden Gate Bridge, using advanced structural analysis software and finite element methods

STAAD SAP Autodesk

Structural Engineer

Los Angeles River Bridge — Jun 2015 - Dec 2017

Designed and analyzed the Los Angeles River Bridge, using industry-standard software and structural analysis methods

STAAD SAP Autodesk

Awards

Outstanding Young Engineer Award

American Society of Civil Engineers

Jan 2019

Awarded for outstanding contributions to the field of civil engineering, including innovative design solutions and exceptional leadership skills

Best Bridge Design Award

International Association for Bridge and Structural Engineering

Jun 2017

Awarded for the design and construction of the Los Angeles River Bridge, which demonstrated exceptional engineering skills and innovative design solutions

Languages

English

Native

Spanish

Fluent

Strengths

Leadership —
Proven ability to lead and manage multidisciplinary teams, with a strong focus on communication, collaboration, and results-driven delivery

Innovation —
Strong passion for innovation and creativity, with a proven track record of developing and implementing novel solutions to complex engineering problems

Hobbies

Hiking • Reading