# Kwame Asante

## Structural Retrofit Engineer

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### SUMMARY

SE-licensed structural retrofit engineer with 10 years of experience retrofitting concrete, masonry, and steel structures in high-seismic California regions. Expert in ASCE 41, CBC, and FEMA P-58 loss estimation. Completed 22 seismic retrofit projects valued at $4M–$85M, achieving average occupancy disruption reduction of 35% through phased construction sequencing. Proficient in ETABS, SAP2000, and PERFORM-3D.

### EXPERIENCE

#### Senior Retrofit Structural Engineer

Degenkolb Engineers · 2018 – Present · Los Angeles, CA

*Lead seismic retrofit design for non-ductile concrete and URM buildings across Southern California.*

- Designed seismic retrofit schemes for 8 non-ductile concrete buildings ($10M–$85M) per ASCE 41 Tier 3, reducing expected story drift by 40–55% at MCE hazard level.
- Performed FEMA P-58 loss assessments on 12 existing buildings, producing owner reports projecting 30–45% reduction in annualized earthquake losses post-retrofit.
- Coordinated with contractors and DOBs to develop phased retrofit sequences minimizing tenant disruption by 35% versus traditional full-evacuation approaches.
- Led a team of 4 engineers producing construction documents for 5 simultaneous retrofit projects across LA and Ventura counties.
- Presented retrofit findings to 20+ institutional property owners, securing $140M in project authorizations over 3 years.

#### Structural Engineer

KPFF Consulting Engineers · 2014 – 2018 · San Francisco, CA

*Provided retrofit design and assessment services for commercial and residential buildings in the Bay Area.*

- Performed ASCE 41 Tier 1–3 seismic evaluations on 15 existing buildings in SF and Oakland, classifying 6 as Collapse Risk Priority (CRP) structures.
- Designed viscous damper and buckling-restrained brace (BRB) retrofit systems for 3 commercial buildings, achieving code-plus performance objectives.
- Prepared vulnerability assessments and retrofit scope reports for 10 institutional clients including 2 UC campus buildings.
- Reduced design documentation time by 25% by developing standardized detail library for common retrofit connection types.
- Coordinated with preservation architects on 4 historically significant retrofit projects to maintain character-defining features.

### AWARDS

#### Outstanding Young Engineer Award

Jan 2020

American Society of Civil Engineers

*Recognized for outstanding contributions to the field of structural engineering*

### REFERENCES

#### John Doe

CEO, Retrofit Engineering Solutions
john.doe@retrofitengineering.com
Supervisor

#### Jane Smith

Structural Engineering Manager, Structural Engineering Services
jane.smith@structuralengineeringservices.com
Colleague

### SKILLS

**Seismic Retrofit Design (ASCE 41)**
**ETABS / SAP2000 / PERFORM-3D**
**FEMA P-58 Loss Assessment**
**Non-Ductile Concrete Retrofit**
**BRB / Viscous Damper Systems**
**URM / Masonry Retrofit**
**CBC / IBC Code Compliance**
**Construction Administration**

### EDUCATION

#### M.S.

University of California, Berkeley
2014
Berkeley, CA
Structural Engineering
GPA: 3.8

### CERTIFICATES

#### PE License

State of California
Jan 2017
*Licensed Professional Engineer in the State of California*

#### SE License

State of California
Jan 2019
*Licensed Structural Engineer in the State of California*

### LANGUAGES

English
Native
Spanish
Intermediate

### HOBBIES

Hiking • Reading