

LICENSES + CERTIFICATIONS

AZ PE (62992)
CO PE (0049807)
CT PE (30708)
GA PE (PE048045)
MA PE (51639)
MD PE (46169)
MI PE (6201062160)
NH PE (14786)
NV PE (022304)
NV EIT (OT5672)
NY PE (094736-1)
OR PE (90827)
PA PE (084178)
RI PE (11509)
SC PE (32089)
TX PE (119570)
VT PE (114186)

NCEES Record 60160
LEED Accredited Professional

EDUCATION

M.S. Structural Engineering
University of Nevada, Las Vegas (2015)

B.S. Civil Engineering
University of Nevada, Las Vegas (2008)

Licensed in 16 states with 18 years of engineering and construction experience, I provide technical opinions, sealed reports, and expert consulting in support of legal disputes, code interpretation, and forensic evaluations.

Core Areas of Practice

- Structural Diagnostics & Failure Analysis
- Residential Structural Design (New & Retrofit)
- Code Compliance & Interpretation
- Construction Workmanship & Forensic Engineering
- Expert Consulting for Legal Disputes

Structural Diagnostics & Failure Analysis

- Evaluation of residential homes and structures and renovations in seismic and high-load zones
- Diagnosis of distress mechanisms: foundation movement, cracking, deflection, and overstress
- Nondestructive field methods: visual inspection, in-situ measurement, and load path tracing
- Certification of structural adequacy for existing or altered structural systems

Code Compliance & Interpretation

- Expert interpretation of IBC, IRC, ASCE 7, ACI 318, NDS, et. al. and local amendments
- Plan and field evaluations for code violations, omissions, and jurisdictional discrepancies
- Documentation of conformance or variance in unpermitted or retrofitted structures
- Guidance in resolving enforcement disputes or alternative method approvals

Prepared to support cases involving:

- Construction and structural claims and disputes
- Permitting and code compliance
- Residential alteration conformance
- Application of building code in residential retrofit scenarios
- Disputes over AHJ enforcement, interpretations, and alternate method compliance



SUMMARY OF EXPERIENCE

18 years of progressive experience in structural engineering, construction project management, and forensic diagnostics with an emphasis in residential construction, structural retrofits, permitting, and multi-jurisdictional code interpretation. Trusted by construction professionals and regulatory authorities alike to deliver concise technical opinions, manage complex diagnostic scopes, and provide expert-level analysis in support of construction litigation and design evaluation. Available to provide written reports, deposition testimony, and trial opinions in support of litigation involving structural failure, construction defects, and permitting disputes.

PROFESSIONAL EXPERIENCE**SCFS Engineering Consulting***Founder / Principal Engineer**2025 – Present*

- Provide structural diagnostics, forensic investigations, and building code interpretation across 16 U.S. states.
- Deliver structural design services for custom homes and residential renovations, including lateral and gravity system engineering, foundation detailing, and construction-phase support.
- Consult on construction defects, permitting disputes, structural performance evaluation, and compliance with international codes and local amendments.
- Evaluate code compliance through plan review and as-built inspection, and prepare written justifications for permit negotiation or litigation support.
- Serve clients in legal, insurance, and construction industries as a retained technical expert.

Tesla*Manager, Engineering**Aug 2014 – Present | Las Vegas, NV*

- Led structural engineering programs supporting residential solar and energy storage installations across the U.S.
- Conducted detailed reviews of existing residential structures to evaluate their suitability for rooftop solar and battery storage additions.
- Performed structural assessments using nondestructive testing techniques (visual inspection, in-situ measurements, load tracing) to determine whether reinforcement was necessary or if certification could be provided for added loads.
- Prepared structural letters of adequacy and retrofit design recommendations in compliance with international codes and local jurisdiction requirements.
- Oversaw permitting, inspection programs, and professional engineering standards and compliance across multiple jurisdictions.
- Directed teams across structural design, QA/QC, automation, and regulatory operations.
- Delivered sealed documentation and structural retrofit recommendations on thousands of residential energy projects.

TransCore*Senior Project Manager**Jul 2010 – Aug 2014 | Las Vegas, NV*

- Managed large-scale intelligent transportation systems (ITS) projects for DOT clients.
- Directed electrical and networked system construction, including underground and high-voltage installations.
- Held full P&L and QA/QC responsibility on numerous high value contracts.

Walter P Moore

Structural Engineer

Jan 2008 – Jul 2010 | Las Vegas, NV

- Designed structural systems for large commercial and high-rise projects with emphasis on seismic and sustainable design.
- Participated in internal seismic, tall building, and sustainability design committees.
- Developed internal tools to support more efficient structural modeling and BIM workflows.

PUBLICATIONS

Prediction of Reinforced Concrete Column Behavior Under Cyclical Loading Using Artificial Neural Networks (2015)

For Nicholas Gordon's latest curriculum vitae, please visit <https://scfs.ec/> or use the QR code below:

