



KIRK WAGNER, SE

PRINCIPAL

CAREER INSIGHTS

Kirk began his career in structural engineering in Santa Barbara prior to completing his masters degree. He first gained exposure to design and forensic engineering at FWC before broadening his expertise into the design of oil and gas facilities while managing teams of engineers and draftsmen and acting as SEOR for a variety of projects. He decided to utilize his knowledge to become a forensics expert where he actively participates in site investigations, expert meetings, mediations, depositions, etc. to provide favorable outcomes for his clients.

CONTACT

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PROFESSIONAL LICENSES, ASSOCIATIONS, AND PUBLICATIONS

Professional Engineering License(s):
AZ, CA (PE, SE), CO, HI (SE), ND, NM,
NV (PE, SE), OR, TX, WA, WY

Certified XL Tribometrist (CXLT)

Professional Associations: American Institute of Steel Construction (AISC), American Society of Civil Engineers (ASCE), Structural Engineers Association of Southern California (SEAOSC), Cold-Formed Steel Engineers Institute (CFSEI)

Publications: "The Basics of the 5% Rule," STRUCTURE, March 2021

EDUCATION

Stanford University, Palo Alto, CA

Sept 2010 – June 2011

Master of Science, Structural Engineering and Geomechanics

California Polytechnic University, San Luis Obispo, CA

Sept 2006 – June 2010

Bachelor of Science, Civil Engineering with structural emphasis
Mathematics Minor, *Cum Laude*

WORK EXPERIENCE

Catapult Drafting - Principal Engineer, Newport Beach, CA

2024–Present

Investigates structural failures and assesses building integrity in residential, commercial, and industrial facilities. Expertise in conducting detailed site inspections, analyzing structural components, and identifying root causes of damage. Proficient in preparing comprehensive reports and providing expert testimony in legal settings. Strong background in structural engineering principles and building codes, with excellent problem-solving and communication skills. Provides structural engineering design services for new and existing buildings utilizing timber, concrete, steel, masonry, and/or light gauge materials.

Axis Consulting - Senior Structural Engineer, Newport Beach, CA

2019–2024

Conducted field investigations and analyzed failures. Determined origin, cause and extent of structural failures, water intrusions, roof damage, construction defects, and building system failures. Performed foundation settlement investigations and structural assessments. Prepared oral and written reports documenting causes of failure, extent of loss, and recommended remediation.

Mott MacDonald - Senior Project Engineer, San Ramon, CA

2015–2019

Project engineer and lead structural engineer on oil and gas facilities in CA, LA, TX, and other states. Managed teams of electrical, mechanical, instrumentation, and process engineers and designers.

Ficcadenti, Waggoner & Castle - Project Engineer, Walnut Creek, CA

2011–2015

Designed building interior and exterior light gauge steel framing systems. Designed structural steel overhead bridge, gantry, and monorail cranes with concrete foundations. Advised and assisted on construction litigation cases involving analysis and repair design for timber and concrete structures.