



Nicholas A. McClure, P.E.
Principal Engineer, President

Civil Engineer, State of California
License # C-70390

As principal engineer and president of MSD Professional Engineering, Inc., Nick brings more than 10 years of experience to projects ranging from the design of elaborate ocean-bluff custom homes to forensic investigations for structural failures.

Uniquely blending a background in structural, geotechnical and mechanical engineering, Nick is able produce project calculations and construction documents with an efficient and understandable approach to the project's inherent design challenges.

Engineering Proficiencies:

- Wood and light-gauge steel stud framing
- Caisson and deep foundation design
- Fire, seismic, corrosion & foundation failure remediation
- Irregular structural and site conditions
- Retaining walls
- CMU and concrete wall systems
- Heavy timber construction
- Expert witness

Professional Experience:

- *MSD Professional Engineering, Inc - Atascadero, CA* (2001 - present)
Principal Engineer, President
- *Beacon Geotechnical, Inc. - Paso Robles, CA* (2009 - present)
Principal Engineer (Employment concurrent with MSD)
- *Buena Geotechnical Services, LLC - Templeton, CA* (2006 - 2009)
Project Engineer (Employment concurrent with MSD)

Education:

BS - Mechanical Engineering, California Polytechnic State University, San Luis Obispo

Recent Notable Residential Projects:

The Etchegaray Residence, Cambria, CA - Design by Jeffery Lentz, Arch.

2,659 sf 3-story wood-framed SFR on a steep hillside lot along the Cambria coastline, with an irregular 3-4-5 triangular design that cantilevered and alternated in direction at each level.

The Goodan Residence - Design by Woodruff Construction

7,000+ sf 2-Story concrete and wood-framed SFR on the ocean bluffs of Harmony Ranch Road.

Recent Notable Commercial Projects:

The Vines RV Resort, Paso Robles, CA - Design by Jordan Architects, Inc.

Structural consulting and design services including conversion of the existing Doll Museum into the resort clubhouse. The 16,000+ sq ft building development also included new office, market, and recreation structures.

Nakoma Golf Resort, The Villas, Plumas County, CA

Provided project consulting and structural design services for the forthcoming expansion to *The Nakoma Golf Resort*, originally designed by Frank Lloyd Wright, Architect.

Agape Church Multipurpose Building, San Luis Obispo, CA - MW Architects, Inc.

Foundation design for a 12,000 sf 2-Story pre-manufactured metal building.

Recent Notable Forensic Engineering Projects:

Concrete Remediation Hazard Assessment Report - CPUC Compliance Investigation

Principal consultant on a concrete failure investigation and remediation project at a 650-MW gas-fired power plant. Investigation and design services for reinforced concrete failures due to salt-water and corrosive chemical exposure, insufficient reinforcement coverage, and impact from heavy equipment.

Single Family Residence - Structural Vibration Study due to Proposed Gas Exploration

Following the preparation of the geotechnical engineering investigation for a gas exploration site within the Suisun Marshland, a structural vibration and mitigation study was performed in order to address significant structural vibrations caused by heavy truck and exploration equipment traffic.

Affiliations:

Cuesta College Department of Construction Technology - Advisory Committee Member

PolyHouse, Cal Poly I&ME Department - Charitable home construction project, engineering services

MSD Professional Engineering, Inc.

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