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CURRICULUM VITAE

Joseph A. McElhany, PE

President | Civil & Geotechnical Engineer



PRESENT POSITION

*President and Civil Engineer
Stockton, California
Licensed Professional Engineer*

PROFESSIONAL PROFILE

Civil and geotechnical engineer with over 17 years of progressive experience in subsurface exploration, rock mechanics, slope stability evaluation, and geohazard mitigation design. Serving with KANE GeoTech since 2008 and currently President, providing executive leadership and technical authority for multi-state geotechnical and civil engineering operations.

Extensive experience in site investigations, rock coring programs, RQD evaluation, limit equilibrium slope stability analysis (static and seismic), and design of anchored stabilization systems for transportation, utility, mining, and infrastructure projects.

EDUCATION

University of the Pacific, Stockton, California
Bachelor of Science, Civil Engineering (2012- 2017)
San Joaquin Delta College, Stockton, California
Associate of Science, Drafting, Honors (2008-2012)

San Joaquin Delta College, Stockton, California
Associate of Science, Mathematics, Honors (2008-2012)

AREAS OF EXPERTISE

Geotechnical Investigation and Analysis

- Geotechnical site exploration
- Subsurface characterization
- Rock mass characterization & RQD evaluation
- Kinematic analysis
- Limit equilibrium slope stability (static & seismic)
- Seismic design and analysis
- Settlement evaluation and bearing capacity

Geohazard Mitigation and Rock Engineering

- Rockfall hazard assessment and mitigation
- Debris flows assessment and mitigation
- Landslide remediation
- Rock slope stabilization
- Avalanche protection

Structural and Foundation Engineering

- Shallow and deep foundation design
- Reinforced concrete design
- Soil-structure interaction considerations
- Ground anchor, tieback, and micropile design
- Soil nail wall systems
- MSE retaining walls
- Temporary excavation and shoring systems

Monitoring and Field Engineering

- Construction observation and field oversight
- Slope and roadway monitoring
- Geotechnical instrumentation coordination
- Ground anchor, tieback, testing inspection
- Erosion control compliance

Construction and Regulatory Compliance

- Construction observation and field oversight
- Slope and roadway monitoring
- Geotechnical instrumentation coordination
- Erosion control compliance
- QA/QC oversight

Project Planning and Delivery

- Project scheduling
- Cost estimating
- Proposal preparation and scope development
- Engineer of Record
- Project management

PROFESSIONAL REGISTRATIONS

- Professional Engineer PE, Civil, California C98796
- Professional Engineer PE, Civil, Colorado 0065204
- Professional Engineer PE, Civil, Hawaii PE-19161
- Professional Engineer PE, Civil, Nevada 028274
- Professional Engineer PE, Civil, North Carolina 062134
- Professional Engineer PE, Civil, North Dakota PE-41742
- Professional Engineer PE, Civil, Oklahoma 33735
- Professional Engineer PE, Civil, Oregon 96034PE

CERTIFICATIONS

- ASCE – Seismic Coefficient Methods for Slope and Retaining Wall Design
- Geobruigg AG – Geohazard Solutions Product Training, Romanshorn, Switzerland
- Geobruigg AG – Rock Slope Design Academy, Romanshorn, Switzerland
- Geobruigg AG – Underground Mining Stability Design
- Geobruigg AG – Anchored Slope & Rock Stabilization Design
- MSHA Part 48 Certification
- OSHA Safety Training
- Southern California Edison – Station Conditions Training
- Union Pacific Railroad – eRailSafe Certified
- Fall Protection Certification
- Flagging and Restricted Area Access Certification
- CPR/AED and First Aid Certified
- QSD/QSP – California Water Board

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
 - Associate Member
 - Central Valley Branch – Past President
- Association of Geohazard Professionals (AGHP)
 - Member
- California Geotechnical Engineering Association (CalGeo)
 - Member

PUBLICATIONS AND PROFESSIONAL PRESENTATIONS

“Geohazard Mitigation Alternative Foundation Backfill for Emergency Construction.” 70th Highway Geology Symposium October 22, 2019

“Rockfall Protection for a Small Hydroelectric Dam in a Steep Canyon.” 65th Annual Association of Engineering Geologists, Las Vegas, Nevada, September 15, 2022, McElhany, J.A. and Kane, W.F.

