



## **KURT AHLICH, P.E.**

### PROFESSIONAL BIOGRAPHICAL OUTLINE

#### **BACKGROUND**

Mr. Ahlich's forensic investigation expertise includes cause and origin failure analysis, civil and geotechnical analysis, and condition assessments of single family residences, multi-family residences, custom residences, manufacturing facilities, commercial properties, office buildings, and governmental buildings. He also has experience in construction methodologies and defects, as well as cost estimation.

His representative forensic engagements include construction defects, foundation movement, structural failures, wind damage, impact damage, water intrusion, plumbing failures, soil heave and settlement, post-fire structural issues, hazardous waste site remediation, and vibration effects resulting from construction and earthquakes.

His general construction experience includes construction management, procurement, cost tracking cost estimation, scheduling, and dispute resolution.

Mr. Ahlich's specific design and construction experience includes foundations and subsurface structures, shoring and underpinning systems, retaining walls, subsurface waterproofing systems, piping, water collection systems, erosion control, hazardous waste site remediation, landslide repair, mass excavation, residential framing and remodeling.

He has also testified in court, depositions, and mediations, and has been a designated expert in multiple cases.

#### **EDUCATION**

- M.S. – Geotechnical Engineering, San Jose State University, San Jose, CA 1998
- B.S. – Civil Engineering, University of Texas at Austin 1987

#### **PROFESSIONAL LICENSES**

- Professional Engineer (P.E.) in California, Florida (License # 84791), New York, Pennsylvania, Oregon, & Washington
- Professional Engineer licensing from the National Council of Examiners for Engineering and Surveying (NCEES), I.D. number 18-834-01
- General Contractor and Engineering Contractor – California (License #639633)

#### **PROFESSIONAL EXPERIENCE**

##### **2017 – Present | ARCCA, Inc. | Senior Engineer**

Forensic investigation and analysis including, but not limited to:

- Civil and geotechnical analysis
- Single family residences, custom residences, manufacturing and commercial properties, office buildings and governmental property
- Construction defects and structural failures
- Foundation and retaining wall failures and distress
- Foundation and subsurface settlement

- Soil heave and settlement
- Retaining walls, subsurface waterproofing systems
- Plumbing failures
- Piping and water collection systems
- Erosion control
- Hazardous waste site remediation
- Landslide repair
- Vibration effects resulting from earthquakes and construction
- Mass excavation
- Property damage assessments to determine cause/origin of materials and systems
- Floor and roof framing distress and deflection
- Roof collapse
- Roof ventilation.
- Code compliance issues for porches, decks, ramps, stairs, handrails, railing, etc. for personal injury claims.
- Wind damage
- Brick, masonry and concrete structural distress

#### **2006 – 2017 | Rimkus Consulting Group, Inc. | Principal Consultant**

- Analysis of civil and geotechnical design and property related problems in residential, commercial, industrial, and public facilities. Forensic analysis of facilities and property damage to determine the cause/origin of material/system failure and accidents. Complete damage assessments and recommendations for remedial repair. Performs premise and surface analysis for slip and fall claims. Executes complete desk and site reviews of property claims, disputes, and accidents including descriptive experienced-based recommendations for resolution.

#### **1998 - 2006 | Terra Firma Geotechnical, Inc. | Principal**

- Evaluated surface and subsurface water flow. Designed and constructed systems for site surface/subsurface water management. Evaluated slope stability conditions. Designed and constructed landslide repairs, retaining walls, shoring, and underpinning systems. Designed and constructed remedial repairs to multiple types of foundation systems. Installed underground piping systems, gas lines, surface and subsurface storm water systems, rerouted water lines and sewer systems. Rehabilitated multiple single family residences, including structural mechanical/electrical/plumbing, and cosmetic repairs.

#### **1996 -1998 | OHM Corporation | Senior Estimator / Project Manager**

- Estimated and contracted for large-scale hazardous waste site remediations, landfill capping, leachate/gas collection and treatment systems, and facilities demolition. Issued work schedules, tracked project progress; prepared change orders/claims.

**1991 - 1996 | Soil Engineering Construction, Inc. | Area Manager**

- Managed geographic division for design/build firm specializing in geotechnical investigation, geotechnical-related failure analysis, and remedial design and construction for soil, surface and subsurface water flow. Specific project experience includes deep excavations, shoring and underpinning, foundation construction/rehabilitation, slide repair, pier/pile installation and horizontal drilling (i.e. tiebacks). Developed and maintained client base, hired and supervised personnel, and maintained responsibility for division profit/loss.

**1987 - 1991 | Canonie Environmental, Inc. | Project Manager**

- Directly responsible for the preparation of investigative, implementation, and closure reports for hazardous waste site remediation programs. Provided cost estimates and project engineering for such programs. Specific project experience includes site investigation, mass excavation, piping and instrumentation, municipal storm sewer systems, fire hydrant high-pressure lines, waste containment via cells, caps, and slurry trenches, UST removal and remediation programs, and ground water and soil treatment systems.