

Credentials

Civil Engineer Structural Engineer

Arizona Arizona
California Illinois

Professional Engineer

New York

Education

Master of Engineering

New York University, 1962

Bachelor of Science in Civil Engineering

Mississippi State University, 1953

Professional Associations

American Society of Civil Engineers - ASCE
Structural Engineers Association of Arizona
Building Seismic Safety Council

Professional Service Positions

Subcommittee on Seismic Loads, American National Standards Institute & American Society of Civil Engineers
Standard 7 Committee, Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers
Seismology Committee, International Conference of Building Officials
Representative of Structural Engineers Association of Arizona to Building Seismic Safety Council
Technical Subcommittee2, Structural Analysis and Design, Building Seismic Safety Council
Code Advisory Committee Chair, Central Chapter, Structural Engineers Association of Arizona
Seismology Committee Co-Chair, Structural Engineers Association of Arizona

Special Qualifications

Over 20 years experience in thorough review of structural engineering designs
Structural design of buildings to withstand seismic and aeolian forces

Areas of Concentration

Civil engineering
Structural engineering
Geotechnical engineering
Construction codes & standards
Building design
Flood-resistant design of buildings

Plan review & permitting
Concrete structures
Strength of materials
Foundation defects
General construction
Industry standards

Specific Experience & Interest

Arizona Building Codes
Uniform Building Codes
Manufactured buildings
Commercial & industrial buildings
Code compliance reviews
Contract compliance review
Multi-family residential buildings
Technical reports
Municipal complexes
Office buildings
Warehouses
Framing
Seismic design
Wind force design

City of Phoenix codes
Schools: elementary, secondary & college buildings
Wood trusses
Construction fasteners
Parking structures
Mid-rise buildings
High-rise buildings
Aircraft hangars
Precast concrete structures
Steel structures
Timber structures
Foundation underpinnings

Professional Experience**Institute for Products, Engineering & Construction****2001 to Present**

Consulting and forensic engineering services for attorneys and insurance companies in the fields of structural and civil engineering. Emphasis placed on structural integrity of buildings & components, suitability & testing of construction materials, and design analysis.

Consulting Engineer**1992 to Present**

Perform structural review of plans submitted to Arizona municipalities in conjunction with building permitting process.

City of Phoenix**1971-1992**

Structural Plans (Review) Engineer, later Senior Structural Plans Engineer for Building Safety Department (later Development Services Department) of City of Phoenix, Responsibility included review of submitted plans for conformance to structural, architectural, life-safety and handicapped provisions of City of Phoenix Construction Code (later 1988 and subsequent editions of UBC). For phased construction project the responsibility included overall coordination of review process. Major projects included Hyatt-Regency Hotel downtown Phoenix (post-tensioned approximate 20-story structure, two 20-story towers of Renaissance Square, 20-story office tower at Arizona Center, parking structure and adjacent shops, and Terminal 4 at Sky Harbor Airport.

Thompson and Clark**1967-1971**

Structural Engineer. Work involved structural design of variety of commercial buildings from one-story to five-stories, a church with half-dome roof and basement below water table (hydrostatic uplift pressures) and related structural inspections. Materials used included structural steel, reinforced concrete, masonry and wood

I.M. Pei and Partners**1966-1967**

Resident Engineer at State University of New York, Fredonia campus. The project involved nine-story administration building, three-story fine arts building containing a concert hall, a full performance theater, various smaller assembly rooms with stages, classrooms, a three-story science building and a power plant. Responsibility included direction and supervision of structural inspection as well as supervision and interpretation of extensive soils testing dictated by very difficult foundation conditions.