

Vacek LLC

Structural & Architectural Engineering

SAM S. VACEK, P.E.
Structural & Architectural Engineer

PROFESSIONAL SUMMARY

Forty-two years experience as a Structural/Architectural Engineer with experience in structural design, failure analysis, and construction monitoring of industrial, commercial, and residential structures.

Master of Science Degree in Civil Engineering

Bachelor of Science Degree in Architectural Engineering

Registered Professional Engineer in Multiple States

Member of Several Professional Organizations

TDI Appointed Windstorm Inspector

Patented Moisture and Mold Resistant Structural System

Primary Areas of Consultation and Expertise:

- Single family and multi-family residences, schools, office warehouses, strip shopping centers, restaurants, commercial office buildings, industrial buildings, hospitals, bridges, towers, and retaining structures.
- Thorough familiarity with the International Building Code, International Residential Code, Uniform Building Code, Standard Building Code, Life Safety Code, Underwriters Laboratories Building Materials Directory, International Conference of Building Officials Research Reports, and applicable Occupational Safety & Health Administration requirements.
- Thorough experience in computer aided design and analysis.

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PROFESSIONAL EXPERIENCE

- 1993 to Present **VACEK LLC (formerly VACEK GROUP, LLC)**
Porter, Texas
Structural/Architectural Engineer
Responsible for the design and failure analysis of structures and their individual components. Experience includes single family & multi-family residences, commercial office buildings, historical buildings, industrial complexes, institutional structures, parking garages, tanks, bridges, retaining structures, and towers. Forensic investigations and expert witness services provided for cases such as structural failures, explosions, fires, foundations, plumbing leaks, toxic mold, moisture analyses of buildings, construction defects, and third party opinions. Computer aided design and analysis utilized.
- 1988 - 1993 **CH&A CORPORATION**
Kingwood, Texas
Senior Structural Consulting Engineer
Responsible for the design and failure analysis of structures. Projects include single family & multi-family residences, commercial office buildings, industrial complexes, institutional structures, parking garages, petrochemical facilities, tanks, bridges, retaining structures and towers. Computer aided design and analysis utilized. Forensic investigations and expert witness services provided for cases such as structural failures, foundations/plumbing leaks, moisture analyses of buildings, construction defects, third party opinions, and slip and falls. Damage assessments for structures having been affected by explosions and seismic activity. Computer aided design and analysis utilized.
- 1987-1988 **ASL CONSULTING ENGINEERS**
Santa Ana, California
Structural Department Manager/Project Manager
Responsible for operation of structural office for ASL Consulting Engineers in Santa Ana, California utilizing computer drafting and engineering for design, analysis and investigations. Projects include office buildings, bridges, schools, hospitals, single and multi-family residential, pump stations and reservoirs. Damage assessments performed for structures involved in earthquakes.

- 1984-1987 **VACEK STRUCTURAL CONSULTANTS, INC.**
Houston, Texas and Santa Ana, California
President
Responsible for complete operation of six person structural engineering firm with the application of computer drafting and engineering for design, analysis and investigations. Projects include single-family residences, multi-family dwellings, office warehouses, strip shopping centers, commercial office buildings and water treatment structures, bridges, schools, hospitals, pump stations and reservoirs.
- 1980-1984 **INTERFIELD ENGINEERING COMPANY**
Houston, Texas
Structural Department Manager/Project Manager
Responsible for client relations, production and coordination of civil, structural, mechanical, electrical and plumbing disciplines of various projects including single-family residential, multi-family residential, office warehouses, strip shopping centers, commercial office buildings and medical office condominiums.
- 1978-1980 **B.A. KALMANS & ASSOCIATES**
Houston, Texas
Structural Project Engineer
Responsible for design, production, and client relations of various projects including single-family residences, strip shopping centers, office warehouses, and commercial office buildings.
- 1977-1978 **WALTER P. MOORE & ASSOCIATES**
Houston, Texas
Structural Design Engineer
Responsible for design calculations and detail development of various projects including schools, strip shopping centers, and commercial office buildings.

EDUCATION

Bachelor of Science Architectural Engineering
University of Texas, Austin, Texas, 1976

Master of Science Civil Engineering
University of Houston, Houston, Texas, 1979

REGISTRATIONS

Registered Professional Engineer in the States of Arkansas (inactive status), California (inactive status), Florida (inactive status), Louisiana (inactive status), Oklahoma (inactive status), Mississippi (active status), New Mexico (inactive status), Nevada (inactive status), South Dakota (inactive status), and Texas (active status).

AFFILIATIONS

American Concrete Institute
American Institute of Steel Construction
American Society of Civil Engineers
Structural Engineers Association of Texas

APPOINTMENT

Texas Department of Insurance Qualified Windstorm Inspector

PATENT

System and method for inhibiting moisture and mold in an outer wall of a structure.

Publication number: US7247090B2

Publication date: July 24, 2007

PATENT PENDING

Systems and methods for controlling air properties in structures and inhibiting moisture accumulation and mold propagation in structures

Application date: February 12, 2019