Vacek group

SAM S. VACEK, P.E.
Principal Engineer/Structural

PROFESSIONAL SUMMARY

- Thirty-one years experience as a Structural Engineer with extensive experience in structural design, failure analysis, explosions, and construction monitoring of commercial and residential structures.
- Master of Science Degree in Civil Engineering
- Bachelor of Science Degree in Architectural Engineering
- Registered Professional Engineer in Multiple States

Primary Areas of Consultation and Expertise:

Single family and multi-family residences, schools, office warehouses, strip shopping centers, restaurants, commercial office buildings, medical office condominiums, hospitals, bridges, towers and retaining structures.

Extensive familiarity with the International Building Code, Uniform Building Code (UBC) and many of its individual city derivatives, Standard Building Code, Life Safety Code, American Association of State Highway and Transportation Officials Building Code (AASHTO), Underwriters Laboratories Fire Resistance Directory, Underwriters Laboratories Building Materials Directory, International Conference of Building Officials (ICBO) Research Reports, and applicable Occupational Safety & Health Administration (OSHA) requirements.

Thorough experience in computer aided design, analysis and programming.

ENGINEERING SERVICES, LP (832-418-9180)

1210 Hamblen Rd., #900 • Kingwood, Texas 77339
tel.(281) 358-5855 • fax (281) 358-9788

PROFESSIONAL EXPERIENCE

1993 to Present **Vacek Group**
Kingwood, Texas
Principal Structural 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, petrochemical facilities, 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 (Commercial, Single Family & Multi-Family), Construction Defects, EIFS Systems, Third Party Opinions, Slip and Falls, and Personal Injury. Damage assessments for structures having been affected by explosions, seismic activity and over pressures. Computer aided design and analysis utilized for investigations and legal exhibits.

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, Slip and Falls, and Personal Injury. Damage assessments for structures having been affected by explosions and seismic activity. Computer aided design and analysis utilized for investigations and legal exhibits.

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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.

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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.

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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 (active status), Florida (inactive status), Louisiana (inactive status), Oklahoma (inactive 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
National Society of Professional Engineers
International Society of Explosives Engineers

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