

EDUCATION

1988 **Bachelor of Science in Civil Engineering**
Texas A&M University, College Station, Texas

EXPERIENCE

June 2015 **Engineering Design & Testing Corp.**
to Present **Houston, Texas**

Consulting Engineer

Provide root cause analysis and prepare damage assessment of commercial, industrial and residential structures resulting from fire, explosion, storm and construction incidents. Evaluate design and construction defect issues in concrete, steel, masonry and woodframe structures. Provide cost estimates to repair structures to preincident condition or replace per current code requirements. Building code compliance.

June 2012 **Testengeer, Inc.**
to June 2015 **Houston, Texas**

Senior Structural Engineer

Designed new, multi-level steel-framed structures and concrete structures for petrochemical and chemical plants in the Texas Gulf Coast area. Onsite field investigation and analysis of existing steel and concrete framing to support new equipment and structures. Calculation and analysis of existing structures to verify code compliance. Details, calculations and design of fall protection on new and existing structures per OSHA requirements. Provided leak detection design systems per Texas Commission on Environmental Quality requirements for industrial ponds and designed steel sheet piles for industrial pond slope stability. Root cause investigation and analysis of structural damage in chemical and industrial plants. Provided repair and replacement designs and prepared cost estimates.

June 2010 **URS Corporation**
to June 2012 **Houston, Texas**

Senior Structural Engineer

Managed a staff of engineers and detailers during the design and construction of a multi-story steel and concrete building to withstand a Category IV hurricane wind and blast loading in the event of an accidental petrochemical explosion. Designed concrete retaining walls, steel sheet piles and concrete foundations for industrial applications. Furnished structural review and analysis of existing concrete building structures at the Laughlin Air Force Base; provided structural steel design for a building addition at the Tinker Air Force Base. Prepared scope of work documents to define the blast design parameters for various munitions in several buildings at the Anniston Chemical Disposal Facility (ANCDF) for the U.S. Army. Inspected and approved a new roof system applied on Mission Control at NASA, Houston, Texas. Structural review of existing steel framing to support vibration control instrumentation in a coal burning power generation plant in Craig, Colorado. Field

review of structural framing support conveyors, crushers and hoppers in coal burning power plants in Stillwater and Muskogee, Oklahoma.

July 2006 to
June 2010

Force Engineering & Testing, Inc.
Humble, Texas

Senior Structural Engineer

Prepared complete structural design of multi-story self-storage facilities, including code review and calculations of all structural and light gage steel, concrete foundations and masonry design. Performed site inspections and provided reports documenting construction changes and field revisions. Furnished structural design and calculations for metal buildings throughout the United States for wind, snow and seismic loading combinations per the local, state and federal codes. Design calculations and detail review of connections for standing seam, structural metal panel, built up and EPDM roof framing systems throughout the United States. Calculated wind uplift design pressures for various non-structural roof systems based upon testing performed at the test facility.

February 2001
to July 2006

Haynes Whaley Associates, Inc.
Houston, Texas

Structural Engineer

Provided the complete design of commercial and industrial concrete tilt wall buildings in the Gulf Coast area. Prepared structural steel design of mezzanines, bracing and roof framing for tilt wall building projects. Designed built-up roofs and provided connection details for gravity and wind loading combinations. Rendered site investigations, repair and cost estimates of roof collapses and structural damage to commercial and industrial tilt wall buildings. Designed concrete tilt wall panels for clear span and multi-story projects.

November 1999
to February 2001

NCI Building Systems
Houston, Texas

Design Engineer

Provided the complete engineering design of commercial and industrial metal buildings throughout the United States. Prepared designs and calculations for standing seam roof and structural panel roof systems, light gage steel members, tapered steel beams and columns, longitudinal bracing, overhead crane runway beam systems, mezzanines and all associated connections.

April 1994 to
November 1999

Whirlwind Steel Building Systems
Houston, Texas

Design Engineer

Provided the complete engineering design of commercial and industrial metal buildings throughout the United States. Prepared designs and calculations for standing seam roof and structural panel roof systems, light gage steel members, tapered steel beams and columns, longitudinal bracing, overhead crane runway beam systems, mezzanines and all associated connections.

April 1993 to
September 1993

Litwin Engineers & Constructors, Inc.
St. Croix. USVI

Piping Engineer

Performed field engineering and provided project assistance to the piping department during the construction of a \$500MM catalytic-cracking expansion project. Performed piping installation verifications.

January 1989 to
December 1992

The M.W. Kellogg Company
Houston, Texas

Construction Engineer

Civil, Structural and Mechanical field engineer responsible for the construction of a \$400MM grass roots BetaCarotene Plant in Freeport, Texas. Responsible for overseeing the construction of all concrete foundations, steel framing, connection and equipment installations.

REGISTRATIONS and CERTIFICATIONS

Registered Professional Engineer in Alabama (#35375-E)

Registered Professional Engineer in Arizona (#46668)

Registered Professional Engineer in Arkansas (#11020)

Registered Professional Engineer in Colorado (#42092)

Registered Professional Engineer in Florida (#95466)

Registered Professional Engineer in Georgia (#PE30236)

Registered Professional Engineer in Indiana (#PE10100284)

Registered Professional Engineer in Kansas (#PE20103)

Registered Professional Engineer in Louisiana (#37319)

Registered Professional Engineer in Mississippi (#26832)

Registered Professional Engineer in Missouri (#2025020000)

Registered Professional Engineer in Nebraska (E-20986)

Registered Professional Engineer in New Mexico (#18016)

Registered Professional Engineer in North Dakota (#10792)

Registered Professional Engineer in Oklahoma (#20537)

Registered Professional Engineer in Texas (#87023)

Registered Professional Engineer in the United States Virgin Islands (#1499-E)

Registered Professional Engineer in Virginia (57504)

Texas Department of Insurance – Qualified Windstorm Inspector

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)