

Professional Summary:

Responsibilities include the structural engineering design of commercial, residential, and industrial structures with extensive experience in various market sectors including but not limited to office, hospitality, education, retail, religious, storage, government, financial, and medical. Performed structural layout, design, rough budgeting, coordination and observation. Lead inspector on commercial and residential structural framing and foundation inspections. Performed structural forensic observations on residential and commercial facilities. Design experience with various building materials including masonry, wood, steel, and concrete on various foundation types including shallow foundations, aggregate piers, piles, mat, and waffle slabs.

Licenses and Certifications:

Professional Engineer, Alabama, License #36062
Professional Engineer, Arkansas, License #16798
Professional Engineer, Colorado, License #PE.0058025
Professional Engineer, Mississippi, License #26679
Professional Engineer, Kentucky, License #31870
Professional Engineer, Indiana, License #PE.0058025
Professional Engineer, Maine, License #PE16220
Professional Engineer, Massachusetts, License #53924
Professional Engineer, North Carolina, License #059219
Professional Engineer, Oklahoma, License #PE35983
Professional Engineer, Rhode Island, License #12427
Professional Engineer, Tennessee, License #108789
Professional Engineer, Washington, License #56669
LEED AP, United States, GBCI # 10264680
Structural Engineers Certification Board, United States, License # 2713-0708

Project Experience:**Alliance Healthcare Services Wellness Center, Memphis, TN**

Designed and drafted civil and structural engineering for wellness center providing comprehensive behavioral health care for both acute care patients and outpatients, as well as evaluations for placement in other treatment centers. The two-story, structural steel framed, 54,500-sq. ft. facility is comprised an emergency entrance, outpatient clinic space, administrative area, 15 crisis-stabilization unit patient rooms, support spaces, and associated parking lot.

911 Emergency Operations Center, Dyersburg, TN

Performed the site planning, civil and structural engineering design for the emergency operations center. Project was designed a load bearing CMU wall with poured in place concrete elevated slabs on a shallow foundation system. Building was designed as both an essential facility in Seismic Design Category E and a FEMA rated tornado shelter.

Primary Care Physicians Office, Memphis, TN

Designed and drafted structural engineering design for new 26,000 square foot physician clinic with laboratories, records and waiting rooms. Building was structural steel with light gauge steel infill supported on a shallow foundation system.

The Lake District, Lakeland, Tennessee

Structural design and drafting of the \$400M mixed use development which includes multiple retail structures and wood framed multifamily building bearing on a post-tension concrete podium supported on concrete columns and walls

Conwood Phase 1 & 2, Memphis, Tennessee

Structural redevelopment of existing blighted buildings into a \$50M, 138 apartments and 65,000 square feet headquarters. Phase 2 is a \$61M, six story phase with 420 parking garage, 10,900 square foot of commercial space, and 292 apartments. The building is wood framed apartment units bearing on shallow concrete foundations supported on aggregate piers on a post tension concrete podium.

**Mirimichi Golf Course, Memphis, Tennessee
27 Hole Golf Course and Clubhouse**

Performed the site planning, civil and structural engineering design, and site observations of the 27-hole golf course complete with new parking lots, driveways, cart paths, Callaway Performance Center, and world class LEED certified clubhouse owned by Justin Timberlake.

The Residences at Thornwood, Germantown, Tennessee

Structural design of the 17-acre \$70M mixed use development which included a 251-unit wood framed multifamily building bearing on a post-tension concrete podium supported on concrete columns and walls

Westin Punta Cana Resort, Punta Cana, Dominican Republic

Structural design of the \$110M five-star Westin resort property has 204 rooms and is located in the Playa Blanca area of Punta Cana Resort & Club, a few minutes away from the Punta Cana International Airport in the Dominican Republic. The project was a dual units and dual language project in a high seismic and wind prone area. It features an outdoor pool, a cigar bar, 16 suites and a Six Senses Spa, among other amenities.

**Tunica Municipal Airport, Tunica, Mississippi
Main 17-35 Runway & Taxiway**

Civil engineering design and drafting of the 8,500 linear feet of runway and taxiway for Tunica Municipal Airport in Tunica, Mississippi. Project included all subgrade, grading, drainage, pavement, and marking design.

**City of Memphis Wolf River Interceptor, Memphis, Tennessee
Sanitary Sewer Interceptor Design**

Civil design and resident inspection of approximately 8 miles of 84" sanitary sewer for the City of Memphis. Performed, project plan and profiles, utility crossings, location of easements, and details. Tested each joint for proper installation according to City of Memphis standards and requirements

**MLGW McCord Pumping Station, Aerator and Tank Farm, Memphis, Tennessee
Seismic Retrofit**

Led the field engineering task and communicated to other project member's issues found during construction. Responsible to act as a primary point of contact for the owner, engineering team, and contractor. Conducted weekly project meetings, observed all construction task for quality of workmanship and completeness, resolved field issues with design team, and facilitated progress payment request.

**I-40/240 Interchange Reconstruction for TDOT, Memphis, Tennessee
Interstate and Drainage Design**

Civil design and named assistant resident engineer on the interchange improvements which includes the first four level interchange in west Tennessee and was TDOT's largest valued project at time of award.

Various Commercial and Residential Forensic Investigations

Performed comprehensive forensic assessments on hundreds of commercial and residential roofing systems, including asphalt shingles, TPO, EPDM, built-up membranes, and cedar shake. Investigations focused on identifying damage from weather-related events (hail, wind, ice, tornado), water intrusion issues, and structural failures such as collapse, snow drift, roof ponding, settlement, and poor construction practices. Delivered detailed reports with root-cause analysis and recommendations for remediation.

Professional Experience:

EFI Global, Principal, 2022 - Present

Davis Patrikios Criswell, Owner and Vice President, 2006 - 2022

Allen & Hoshall, Civil Engineer III, 1999 - 2006

Lurgi PSI, Inc., Project Manager / Structural Engineer, 1997 - 1999

Formal Education:

Bachelors of Science in Civil Engineering, 1999 Christian Brothers University, Memphis, TN

Specialized Education:

Simpson Strong-Tie Seismic Symposium, Simpson Strong-Tie
Structural Crack Repair by Epoxy Injections, American Concrete Institute
Reinforcing for Concrete, American Concrete Institute
Department of Transportation – FAA Remote Pilot Certification

Affiliations:

American Society of Civil Engineers
Structural Engineers Associate
Engineer's Club of Memphis



Honors and Awards:

Memphis Business Journal's Top 40 Under 40, 2008

Distinguished Young Alumnus Award, 2009

150 for 150: Honoring Our Alumni II, 2022

Viewbug Photography Awards 2023 Winner

Won Contest Finalist in Image of the Year Photo 2016