

Pavel Pavlov, PE SE

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Profile:

Pavel is a structural engineer with over 19 years of progressive experience in the fields of structural design, bridge engineering and construction management.

Employment history:

Present

Fine Tuned Structures, LLC - Founder and Principal

Former

Woods Engineering, P.A. –	Principal Structural Engineer
Freyssinet, LLC -	Senior Bridge Engineer / Project manager
Bernard, Johnson, Young, Inc. -	Structural Engineer / Plan checker
Perfect Engineering, Ltd. -	Structural Engineer

Education:

University of Architecture and Civil Engineering

Sofia, Bulgaria; Faculty of Civil Engineering

5-year Masters Degree in Civil Engineering (MEng.)

(Structural Engineering Major)

Selected Projects:

- **Chicora School – Charleston, SC** – Engineer of Record – 78,000 sq. ft. public elementary school. Load bearing special reinforced masonry shear walls supported by spread footings. Structure is located in a hurricane zone with design wind speed of 120 mph and a seismic design category of D.
- **Lusail Katara Hotel – Doha, Qatar** – Sub-consulting structural engineer – Signature hotel development with estimated construction budget of \$1.75 billion. For the preliminary design of the 720 ft. tall, 6-star hotel tower reinforced concrete frame structure founded on pile supported mat is used.
- **White Oak Estates – Shelby, NC** - Engineer of Record – New 16,000 sq. ft. addition to an existing assistance living facility. The structure is composed of light gage steel load bearing walls and steel gravity frames. The scope of work includes as well a moment frame steel structure supporting new roof and spanning 75 ft. over an existing one to refresh and modernize the aesthetic look of facility front which was build back on 1970.
- **Bluewater Condominium B – Hilton Head, SC** – Engineer of Record – 58,000 sq. ft. 5-story load bearing masonry with precast hollow core planks. Seismic Design Category D with 120 mph design wind speed and liquefiable soils.
- **White Oak Estates – Spartanburg, SC** - Engineer of Record – 14,000 sq. ft. 1-story assistance living facility. The structure is load bearing masonry walls that are supported on strip footings.
- **La Hacienda Mexican Restaurant - North Charleston, SC** – Engineer of Record - 6,700 sq. ft. a combination of wood and steel framed structure. Project is designed per the new provisions of IBC 2012 & ASCE 7-10 for seismic design category D and wind pressure based on strength level wind speed of 142 mph.

- **Cooper's Ridge Apartments – Ladson, SC** – Engineer of Record – Fifteen, 4-story apartment buildings and a club house – light frame wood structures supported on strip footings. All buildings are designed and detailed for seismic design category D and 120 mph design wind speed.
- **Ashton Woods Apartments – Ladson, SC** – Engineer of Record – Nine, 4-story apartment buildings and a club house – light frame wood structures supported on strip footings. All buildings are designed and detailed for seismic design category D and 120 mph design wind speed.
- **ATMC communication center – Shallotte, NC** – Engineer of Record - Essential facility for local TV station – one story Isolated concrete forms (ICF) wall system with light gage roof trusses. Structure is designed for 150 mph design wind speed and seismic design category C.
- **Pender County EMS – Burgaw, NC** – Lead Structural engineer - One story Emergency Operation Center designed as essential facility with design wind speed of 120 mph and seismic design category D. Special reinforced concrete shear walls supported on spread footings.
- **Jewel of the Creek – Dubai, UAE** - Lead Structural Engineer in charge of US design team - Large development comprised of 21 towers. Towers vary in height from 14-24 stories. Entire complex is connected with common 5 story underground parking – reinforced concrete structures –Sub-consultant to Kling Consult GmbH - Architect and Engineer of Record for the entire project.
- **Sandy Bank Bay – St. Kitts, West Indies** – Engineer of Record - Club house, restaurant, sales office, club pool and 14 bungalows part of large resort development – masonry, concrete and wood framed structures.
- **NCREP – Shallotte, NC** – Engineer of Record - 30, 000 sq. ft. luxury single family home with 19,000 sq. ft. luxurious pool and landscape. Isolated concrete forms (ICF) walls and slabs for the house, reinforced concrete for landscape structures. Structure is designed for 150 mph design wind speed and seismic design category C.
- **Bald Head Ferry Terminal – Southport, NC** – Lead Structural Engineer - Private marine transportation facility. Mixed reinforced concrete, steel and exposed timber structure. Building is located in V flood zone. Designed for hydrostatic and hydrodynamic loads including wave action and debris loading.
- **Tanyard Parish – Wilmington, NC** – Lead Structural Engineer - One-way reinforced post-tensioned (PT) platform slab with 64 ft. span PT girders supporting 2 and 3 story wood frame structure above.
- **Straw Market – Myrtle Beach, SC** – Engineer of Record - 27 story reinforced concrete condominium tower with waffle slabs.
- **Preserve buildings 4 and 5 – Oak Island, NC** – Lead Structural Engineer - Multi-story luxury condominiums - two-way post-tensioned slabs.
- **Sky Venture – Fort Bragg, NC** – Lead Structural Engineer - Complex 3D steel structure for free fall simulation used by both military and public.
- **Cooper River Bridge Replacement– Charleston, SC** – Cable Stayed Bridge – Senior quality control engineer for Freyssinet Stay Cable System.
- **Bill Emerson Memorial Bridge - Cape Girardeau, MO** – Cable Stayed Bridge –Senior site project engineer in charge of stay erection.
- **Maumee River Bridge Replacement–Toledo, OH** – Cable Stayed Bridge –site project engineer for stay erection.
- **Longport Bridge Replacement–Longport, NJ** – Pre-stressed, post-tensioned I beams – Project manager for post-tensioned operations
- **Snowmass Canyon Bridge–Snowmass, CO** – cast in place post-tensioned box girder – Project manager for post-tensioned operations

Professional registrations and membership:

- Registered professional engineer in the states of Virginia, North Carolina, Kentucky, South Carolina, Georgia and Florida
- Registered professional structural engineer in the state of Utah
- Member of the Structural Engineers Association of South Carolina (SEAofSC)
- Member of the American Institute of Steel Construction (AISC)
- SECB certified
- NCEES record holder

References available upon request: