

Resume

Anton Gueorguiev, PE

Profile:

Anton is structural engineer with over 16 years of progressive experience in the fields of structural design, specialty structural repair and strengthening techniques, and bridge engineering.

Employment history:

Present

Fine Tuned Structures, LLC - Freyssinet, Inc. -	Principal Senior Structural Engineer
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Former

Woods Engineering, P.A. – Freyssinet, LLC - Artec AEC, Ltd -	Senior Structural Engineer Project engineer Staff Structural Engineer
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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:

- **Charleston Harbor Resort Expansion** - Charleston, SC – Sub-consultant to Curry Engineering. Scope of work includes 3D modeling and design of the main 5 story, 130,000 sq. ft. hotel building. The hotel is part of major resort expansion plan. Linear and Response spectrum analyses were performed per the governing US codes. Building is located in a hurricane region with design wind speed of 130 mph. Seismic design category D. Special reinforced concrete shear wall frame structure supported on pile foundations is utilized for lateral design.
- **Strengthening PT beams in a metro station** – Washington, DC – Senior Structural Engineer. Specialty and comprehensive design for strengthening a post-tensioned girder with extremely deteriorated and corroded tendons. Strengthening included design of an additional structure – reinforced concrete frame (two oval shaped columns and tie beam) as mid support to the strengthened beam. Carbon fiber reinforced polymer design. Temporary supports design. Design of the jacking of the existing beam. Design check of the platform condition and capacity to bear additional loads. On-site engineering supervision and consultation to the Owner.
- **Temple LNG Tanks, Berks County, PA** – Team Structural Engineer. Post-tensioned tendon layout design to position tendons in compliance with stress diagram provided by the Owner's main Consultant. Comprehensive long-term stress loss calculations. FEM analysis for various sections of the LNG tank.
- **Mullica River Bridge, NJ** –Team Structural Engineer. Post tensioned tendon layout design and various stress loss calculations.
- **Bridge Jacking and Repair, Richmond, VA** – Team Structural Engineer. Bridge Jacking Design for bearing replacement, pier and abutment retrofit.
- **Creek Towers – Sorouh Reem Island - Abu Dhabi, U.A.E.** – Senior Structural Engineer – Two – 23-story twin condo buildings. Reinforced concrete frame structure with shear walls cores,

columns and post-tensioned slabs. 5-story below grade parking as part of the structure. The towers are each flanked by 7 stories of office space which are connected to the main towers with 7-story atriums. The complex main towers incorporated office and commercial space on the first 7 floors with residential units on the upper 15 floors. Each tower also had a swimming pool and health club at the top level.

- **Dubai Islamic Bank – Dubai, U.A.E.** – Senior Structural Engineer - 39-story business center with 1000-people conference auditorium, 5 levels of underground parking and ground level entry featuring 7-story tall atrium. The main structure is of reinforced concrete with combination of central shear wall core and peripheral frames supporting reinforced concrete floors. The star-shaped plan has 8 segments, each at a different height, stepped every 5 stories. Each of the 7 additional steps was topped by an atrium ranging from 3 to 5 stories in height.
- **Octavian Business Bay – Dubai, U.A.E.** – Senior Structural Engineer – 19-story commercial tower with 4 underground parking levels, grade level, 3-story above ground parking and 16 levels of premium office spaces. Reinforced concrete structure with shear wall cores and columns supporting post-tensioned floors.
- **Jewel of the Creek – Dubai, U.A.E.** – Senior Structural Engineer - 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.
- **West Gate Hotel** – Wilmington, NC – Lead Structural Engineer – Approximately 60,000 sq. ft. 5-story hotel. Concrete masonry load bearing walls with precast hollow core plank floors. Seismic Design Category C with a combination of specially reinforced masonry shear walls in the long direction and ordinary reinforced masonry shear walls in the short direction of the building. Design wind speed is 130 mph. The site was remediated with stone columns to improve the allowable soil bearing capacity to 4,500 psf. This avoided using deep pile foundations and the building was design and constructed on spread footings.
- **Belvedere Towers – Sofia, Bulgaria** – Engineer of Record – Two 11-story luxury condominium towers with 3-story shopping center and parking garage. Reinforced concrete frame utilizing shear walls, columns and two-way flat slabs. Both towers are supported by common reinforced concrete foundation mat.

Professional registrations and membership:

- Registered professional engineer in the states of California, Virginia, Maryland and the District of Columbia
- Member of the Virginia Structural Engineers Council (VSEC)
- Member of the American Institute of Steel Construction (AISC)
- Member of the American Society of Civil Engineers (ASCE)
- NCEES record holder