John L. Schlitter, MS, PE

Senior Project Engineer

PROFILE

John Schlitter is a Senior Project Engineer with over 18 years of progressive experience in the design and investigation of buildings and properties. With a background in civil/structural/materials engineering, Mr. Schlitter has designed a wide variety of structures across the United States, including stadiums, dormitories, multi-story commercial buildings, industrial plant buildings, and residences. Mr. Schlitter has conducted over a thousand of property investigations and has comprehensive knowledge of design standards and building codes, and extensive experience in providing technical reporting of findings and litigation support. Mr. Schlitter also has a research background in concrete; specifically, concrete shrinkage cracking, thermal cracking, permeability, and reinforcement corrosion. Key strengths include the following:

- Structural Failures and Collapses
- Temporary Shoring
- Construction Defects
- Concrete Service Life Failures
- Foundation Movement and Rehabilitation
- Sinkhole Investigations and Rehabilitation
- Building Code Requirements for Damage Rehabilitation
- Inland Marina Damage
- Explosion-Related Damage
- Swimming Pool Problems
- Septic System Failure
- Building Envelope Failure
- Storm-Related Damage
- Water Intrusion and Fungal Growth
- Slip/Trip and Fall Assessments
- Site Grading and Drainage Problems

- *Industries*: Forensics, commercial, industrial, and residential structures
- *CAD/Design Packages:* STAAD, RISA, RAM Structural System, AutoCAD, and Revit

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EDUCATION

Master of Science, Structural/Materials Engineering, 2010
Purdue University – West Lafayette, Indiana

Bachelor of Science, Civil Engineering, 2002
Purdue University – West Lafayette, Indiana

LICENSES

Professional Engineer (PE):

- Connecticut
- Delaware
- District of Columbia
- Florida
- Indiana
- Kentucky
- Maryland
- New Jersey
- New York
- North Carolina
- Ohio
- Pennsylvania
- South Carolina
- Texas
- Virginia
- West Virginia

Structural Engineer (SE):

- Illinois

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- International Code Council (ICC)

PROFESSIONAL BACKGROUND

November 2015 – Present: Envista Forensics – Atlanta, Georgia
Senior Project Engineer

January 2012 – October 2015: Envista Forensics – Atlanta, Georgia
Project Engineer

2008 – 2012: KJG Engineering – West Lafayette, Indiana
Structural Engineer

2007 – 2008: Luckett & Farley Architects, Engineers, and Project Managers – Louisville, Kentucky
Structural Engineer

2002 – 2007: Luckett & Farley Architects, Engineers, and Project Managers – Louisville, Kentucky
Graduate Structural Engineer

REPRESENTATIVE PROJECT EXPERIENCE

Multi-Story Commercial Building Column Failure
Rockville, Maryland

- Determined the cause and origin of the failure of multiple structural steel columns that resulted in excessive vertical displacement of the building.

Explosion Damage Investigation
Trenton, New Jersey

- Determined the extent of structural damage to a 135-unit townhome community that was exposed to a natural gas explosion.

Mid-Rise Hotel Cladding Failure
Maryland

- Determined the cause and origin of water infiltration through the exterior cladding system of a mid-rise hotel that resulted in damage to over 50 units.

Commercial Wind Damage Investigation, Hurricane Sandy
Philadelphia, Pennsylvania

- Determined if modified bitumen roofing materials at a 300,000 square-foot industrial warehouse were damaged by wind-forces associated with Hurricane Sandy in October 2012.

Commercial Fire Damage Investigation
Hammonton, New Jersey

- Determined the extent of structural damage to a steel structure that was exposed to an automobile fire within a repair shop.

Aluminum Processing Plant
Nanshan America – Lafayette, Indiana

- New fast track 600,000 square-foot heavy industrial plant. Performed detailed engineering of the complete building structure including foundations, columns, the roof structure, and the lateral system. The project implemented 50-ton runway cranes with up to 100-foot rail-beam spans.

Horse Racing Stadium Renovation
Churchill Downs – Louisville, Kentucky

- $130 million, 485,000 square-foot renovation/replacement of a large portion of grandstands and suites for the historic horse racetrack facility, Churchill Downs. Performed detailed engineering of the new structure that consisted of auger cast pile foundations supporting composite steel structure and a lateral system of concentric braced frames to meet requirements of a moderate seismic zone. Performed numerous structural observations throughout the duration of the project and was responsible for shop drawing processing.

Industrial Plant Modifications
Ford Truck Assembly Plant – Louisville, Kentucky

- Responsible for the design of fast-track modifications to approximately 100 existing roof trusses at a truck assembly plant to support new point loads from retooled assembly line processes. Worked closely with the general contractor to implement work within time constraints of the plant shutdown.

Automotive Training Facility
Kia – West Point, Georgia

- New 70,000 square-foot design-build, fast-track automotive training center, PLC Labs, Hi-bay workshop and administrative space. Highly visible project for KIA and the state of Georgia and included significant architectural flair. Structure was structural steel and utilized several different systems such as exposed longspan steel roof trusses with longspan deck, cantilever structural steel, joists, hanging walkways,

curtainwall, and light gage. Responsible for the design of the entire structure including foundations, and the gravity and lateral systems. Selected all structural systems and produced drawings with AutoCAD.

Residential Hurricane Damage Investigation, Hurricane Sandy
Seaside Heights, New Jersey

- Determined cause and origin of damage to interior and exterior building components (asphalt composition shingles, vinyl siding, wooden framing) at a single-family residence that was exposed to wind-forces and storm-tides associated with Hurricane Sandy in October 2012.

Residential Tree Damage Investigation
Rockville, Maryland

- Determined the extent of structural damage to a single-family residence that was impacted by a large tree. Provide quantities of damaged items and a full scope of repair recommendations.

Residential Foundation Investigation
Millville, New Jersey

- Determined cause and origin of the failure of a basement wall within a single-family residence.

Residential Hail Damage Investigation
Mechanicsburg, Pennsylvania

- Determined if the exterior roofing and siding materials at a single-family residence sustained functional damage by a reported hail-storm.

Single- and Multi-Family Residential Development
Fort Knox Housing Developments – Fort Knox, Kentucky

- Design-build project consisting of several neighborhoods on the Fort Knox army base with a mix of new construction and renovation. New construction involved two neighborhoods of approximately 400 three/four bedroom homes. Responsible for the detailed design of the structural system which included conventional wood framing and prefabricated wood joints/trusses. Foundation design involved a combination of post tensioned slab-on-grade systems or spread footings based on variable soil conditions. Also included the renovation work within several historic communities on-base.