

<b>Project Biography (2006 – 2014)</b>			
<b>Residential &amp; Commercial Portfolio</b>			
<b>Project Title</b>	<b>Type</b>	<b>Year</b>	<b>Description</b>
New Commercial Building Newport, RI	Commercial	2006	Foundation, retaining wall & other building design & engineering work for new commercial facility processing biodiesel fuel. Retained further to perform Controlled Construction Services.
Masonry Wall Assessment Newport, RI	Residential	2006	Assessment of Masonry Wall System requiring temporary shoring at risk of collapse.
Blackstone Blvd Bakery Providence, RI	Commercial	2007	Design & Engineering of repairs to damaged masonry and steel structural members to restore damaged multi-story building impacted by vehicle.
Residential Addition Johnston, RI	Residential	2008	2-story addition framed with engineered lumber for long spans & vaulted ceilings.
New Home Design & Engineering Bristol, RI	Residential	2008	Full set of construction drawings for new home (concrete foundation & wood framing).
Johnston Motor Lodge Structural Assessment for Code Compliancy Johnston, RI	Commercial	2008	Preparation of structural drawings to bring cited code violations into conformance with RI State Building Code.
Historic Farm House Structural Improvements West Greenwich, RI	Residential	2008	Structural assessments and preparation of specifications for structural improvements to farm house.
Historic Porch Renovation East Greenwich, RI	Residential	2008	Engineering and Design of structural framing and connections for porch in special wind zone.
Wind Load Analysis & Collector System Design Coventry, RI	Residential	2008	Analysis of chord and collector systems for open-framed residential structure.
Insurance Claim Inspections Various Locations in RI	Residential	2008-2009	Inspection & assessment of insurance claims for compliance with state building code
Historic Home Structural Improvements Barrington, RI	Residential	2009	Structural analysis and design of jacking and shoring system to restore gambrel house that experienced significant movement of walls.

Commercial Space Conversion  Bristol RI	Commercial	2009	Engineer of Record for building conversion for new dental office space. Scope of work included supporting architect, performing load take-down calculations, specifying LVL headers and providing general consultancy to contractor during construction.
Mezzanine Storage Rack System Analysis and Review  Various Locations	Commercial	2009-2010	Review of storage rack systems for local code compliance and load analysis performed in STAAD, common structural analysis software in structural engineering & design offices.
Coddington Condominiums Restoration Work  Newport, RI	Residential	2009-2012	Engineering & Design of foundations, modifications to new openings in foundations, dormers, entryways, components and cladding and other work related to a ~\$1M upgrade of the buildings
Historic Barn Conversion to Residence  Middletown, RI	Residential	2009	Analysis of Barn Structure and advising to Architect on structural detailing for converting barn to residential space.
New Residence in High-Wind Zone  Narragansett, RI	Residential	2010	Engineering and Design Specifications for building located in high-wind zone (diaphragms, chords, shear walls and connection of Main Wind Force Resisting System).
Basement Foundation Rebuild  Providence, RI	Residential	2010	Engineering and design of new columns and other structural members for deteriorated brick foundations
Construction Arbitration  West Warwick, RI	Residential	2010	Engineering liaison between owner and builder on remedy of structural deficiencies.
Historic Church Restoration  E. Providence, RI	Religious Institution	2010-2011	Restoration of church steeple, design of new structural support system for baptistery and design and construction oversight of new wall to stabilize basement walls.
Slope Failure Analysis  Johnston, RI	Residential Development	2010-2011	Engineering analysis and representation as Owner's Engineer during construction arbitration case.
Restaurant Conversions  Warwick, RI	Commercial	2010-2012	Engineering and design specifications for several restaurants in Warwick, RI for same group of owners. 3 projects complete, 1 in progress starting in 2014.
New Residence in High-Wind Zone  Narragansett, RI	Residential	2010	Engineering and Design Specifications for building located in high-wind zone (diaphragms, chords, shear walls and connection of Main Wind Force Resisting System).
Rooftop Greenhouse Design  Providence, RI	Residential	2010	Engineering and Design support of new rooftop greenhouse.
Airport Hanger  Quonset Airport, RI	Commercial	2010-2011	Engineering and design of foundations for new pre-engineered airport hanger.

Flood Assessments Rhode Island (various)	Residential & Commercial	2010	Flood assessments following flooding in Rhode Island in Spring 2010. Recommended short- and long-term solutions to mitigate flood risk.
Solar Rooftop Systems Massachusetts (various)	Commercial	2011	Structural assessment of existing commercial buildings for proposed loading of solar collection systems.
Expert Testimony Stoughton, MA	Residential	2011	Qualified to provide expert testimony during construction litigation case involving a builder and new homeowner in district court. Prepared calculations and other exhibits as part of preparation.
New Residence in Flood Zone Bristol, RI	Residential	2011	Engineering and design of new home located in flood zone (diaphragms, chords, shear walls and connection of Main Wind Force Resisting System).
Solar System Install Southborough, MA	Residential	2012	Analysis of existing roof system for proposed solar system installs.
Restaurant Renovation Saugus, MA	Commercial	2012	Assessment of structural framing and other support during renovation work.
Sleepy's Store Renovations Massachusetts (various)	Commercial	2012	Engineering support and inspection of renovation work at multiple stores supporting one general contractor responsible for the work.
New Residence Dover, MA	Residential	2012	Structural engineering support for 6,000+ square foot home with open floor plans throughout.
New Residence Wakefield, RI	Residential	2012	Engineering and Design Specifications for building located in high-wind zone (diaphragms, chords, shear walls and connection of Main Wind Force Resisting System).
Airport Hangers Quonset Airport, RI	Commercial	2012	Provide general civil & structural engineering support during conceptual phase of work.
Construction Arbitration Bristol, RI	Residential	2012	Provide written structural assessment of subject matter in arbitration. Qualified as expert during arbitration hearing and provided sworn testimony on matter.
Restaurant Renovation Providence, RI	Commercial	2013	Structural assessment of existing structural system. Engineering and Design for new beams that eliminated columns. Connection detailing and construction support were also a part of the engineering scope of work.
New 2-family Residence Newport, RI	Residential	2013	Subdivision of property, development of specifications for new parking lot to meet stormwater management requirements for the site and development of plans. Plans still in conceptual phase with construction planned for 2016.
New Residence in Flood Zone Bristol, RI	Residential	2013	Foundation and framing design that conforms to ASCE-24 Design of Flood-Resistance Structures and insurance underwriter's site-specific requirements.

Residential 2 <sup>nd</sup> Floor Addition Middletown, RI	Residential	2013	Support conceptual engineering and design for adding 2 <sup>nd</sup> floor to existing ranch house. Project remains in conceptual phase.
Construction Affidavit Southborough, MA	Residential	2014	Foundation inspections and affidavit for controlled construction directed by Town Building Official.
Home Renovation & Addition Newport, RI	Residential	2014	Planning, permitting, engineering & design work for a 2-family residential exterior remodeling and new addition.
Home Renovation Attleboro, MA	Residential	2014	Structural engineering for beam and supports for home renovation.
Construction Spec Oxford, MA	Residential	2014	Structural assessment and preparation of specification for stabilizing foundation wall system.
Home Renovation Cumberland, RI	Residential	2014	Development of construction specification and drawings for flitch plate beams, supports and other general requirements for renovation project.
Restaurant Development Worcester, MA	Commercial	2014	Structural Assessment and preliminary engineering support to architect for ~\$1M building use conversion from church to bistro. Order of magnitude estimate for reinforcement of existing brick & mortar foundation and pilasters and other deteriorated structural systems.
Restaurant Development Coventry, RI	Commercial	2014	Structural Assessment and preliminary engineering support designer for ~\$0.5M renovation. Order of magnitude estimate for replacement of existing brick & mortar pier-type foundation and reinforcement or replacement of other structural systems. Ongoing support of investor's due diligence phase of development.
Forensic Engineering Shrewsbury, MA	Residential	2014	Preparation of affidavit, structural assessment and other engineering opinion for construction warranty arbitration between Owner and Builder.
Structural Inspection Affidavits Various	Residential & Commercial	2014	Perform structural assessment of egress systems, preparation of documentation to address deficiencies and submittal of sworn Affidavits prepared for clients and submitted to local building departments.
Property Development Assessments Various Newport County	Residential & Commercial	2014	Perform site assessment work as part of property due diligence. Scope of work includes assessment of flood risk, comparative analysis of development options and order of magnitude estimates for those costs.
Structural Assessment	Commercial	2014	Structural assessment of existing church to improve functionality of overall space. Scope of work focused on assessing concern of vibration in flooring system and identifying various improvement alternatives to mitigate concern.
Forensic Engineering Holden, MA	Residential	2014	Perform Owner's Engineering services to determine cause of various structural concerns related to a newly purchased home.

<b>Project Biography (2006 – 2014)</b>			
<b>Operations Research &amp; Business Development</b>			
<b>Project Title</b>	<b>Type</b>	<b>Year</b>	<b>Description</b>
Client Confidential  Rhode Island	Commercial	2007-2014	Qualified to provide expert testimony in the discipline of Operations Research during multiple hearings applicable to a taxi company during hearings in front of the Rhode Island Public Service Commission. Testimony and submitted exhibits based on statistical modeling and data analysis.
Real Estate & Company Valuation  RI & MA	Residential & Commercial	2008-2014	Prepare valuation and other worksheets such as cash flow projections to support due diligence performed on residential and commercial property investments and going concerns that is derived from 10 years of direct ownership of residential & commercial real estate ownership and M.B.A. degree program.