

EDUCATION

1994 **Bachelor of Science in Civil Engineering Technology**
Central Connecticut State University
Emphasis in Construction Engineering

EXPERIENCE

February 2007
to Present **Engineering Design & Testing Corp.**
Windsor, Connecticut

Consulting Engineer

Specialized consulting in areas of scope of damage and structural assessment of commercial, industrial, and residential structures, including origin and cause of collapsed structures; wind, flood, fire, and settlement damage; construction losses; repair or replace cost estimation. Provide investigations to determine construction defects, origin and cause of fires, and evaluate slip/trip and falls. Review new construction and repairs to existing structures for compliance to prior and current applicable building and fire codes. Perform as expert witness.

April 2001
to February 2007 **United International Corp.**
Wallingford, Connecticut

Project Engineer

Performed special inspections and field corrective design of structural backfill, reinforced concrete, and masonry, during construction of a convention center, stadium, and science center (encompassed as the Adriaen's Landing project in Hartford, CT). Developed the database to record environmental and construction testing and sampling. Managed on-site structural inspection for construction of new dormitories (ECSU in Willimantic, CT). Analyzed, developed, and resided over municipal sewer inflow/infiltration reduction project for citywide upgrade (Ansonia, CT). Resided over construction of new and upgraded sewer plants and pump stations (Morris Cove PS in East Haven, CT; sewer plant in Litchfield, CT) and widening of interstate highway (I-84, Cheshire to Waterbury).

October 1997
to April 2001 **Camp Dresser & McKee, Inc.**
Waterbury, Connecticut

Resident Engineer

Inspected and approved compliance of a new and upgraded municipal sewer treatment plant (Waterbury WPCF) to drawings, specifications, and building codes; overseeing soil, rebar, concrete, masonry, and architectural details. Created and approved punch lists. Inspected and approved installation and pipe jacking of new buried sewer main. Monitored seismic activity during blasting. Operated nuclear density gage during soil backfilling and asphalt paving. Developed and analyzed monthly CPM schedules and contractor cost estimates.

June 1996
to May 1997 **The SINCO Company**
Middletown, Connecticut

Design Engineer

Designed and tested safety net applications. Installed netting systems for construction projects. Inspected fabrication of safety harnesses.

January 1994
to July 1994

**Department of Transportation, District 1
Rocky Hill, Connecticut***Surveyor Intern*

Set and pointed property line monuments. Operated survey equipment.

REGISTRATIONS and CERTIFICATIONS

Registered Professional Engineer in Connecticut (#24345)

Registered Professional Engineer in Maine (#11497)

Registered Professional Engineer in Massachusetts (#47166)

Registered Professional Engineer in New Hampshire (#20698)

Registered Professional Engineer in New York (#113462)

Registered Professional Engineer in New Jersey (#24GE06372800)

Registered Professional Engineer in Pennsylvania (#PE098663)

Registered Professional Engineer in Rhode Island (#8846)

Registered Professional Engineer in Vermont (#9099)

National Council of Examiners for Engineering and Surveying (NCEES – 16-915-89)

National Institute for Certification in Engineering Technologies (NICET)

Level II – Building Construction in Water/Wastewater Plants (#103166)

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)

Connecticut Society of Civil Engineers (CSCE)

PUBLICATIONS

Centurelli, Anthony P., “*The Hartford Circus Fire*”, The Stress Point, Volume 27, Number 4, Engineering Design and Testing Corporation (EDT), Columbia, South Carolina, December 2014.

EDT blog; Drywall: Levels of Finish; September 2019

EDT blog; Oxford Dining Hall Beam; April 2021

EDT blog; Equal Conveyance and Compensatory Storage; November 2021

PRESENTATIONS

Centurelli, Anthony P., “*Wind and Hail Damage to Roofs*”, Presented at the Property and Liability Resource Bureau (PLRB) conference, Providence, RI, November 2022, Columbus, Ohio 2021

CONTINUING EDUCATION

- 2025 *“High-Performance Envelopes in Wood Construction”*; Webinar sponsored by WoodWorks Wood Products Council
- “Understanding Mass Timber and Cold-Formed Steel Hybrid Construction”*; Webinar sponsored by WoodWorks
- “Understanding Pavement Failures”*; Webinar sponsored by Tensar
- “Fire Design of Mass Timber Connections: Detailing Strategies & Compliance Paths”*; Webinar sponsored by WoodWorks
- “Structural Behavior of Wood Diaphragms: From Rigid to Flexible”*; Webinar sponsored by WoodWorks
- “ATC Structural Design for Coastal Flood Resilience”*; Webinar sponsored ATC
- “Use of Data & Analytical Tools in RCA”*; sponsored by EDT
- “Issues Encountered During Roof Evaluations - A New Engineer’s Perspective”*; sponsored by EDT
- “Design Aspects of Repairs”*; sponsored by EDT
- “Moisture Intrusion into Residential and Commercial Buildings”*; sponsored by EDT
- “Evaluation of Commercial Flat Roofs; Hail/Wind Break”*; sponsored by EDT
- 2024 *“Large Concrete Sewer Condition Assessment”*; sponsored by EDT
- “The Technical Challenges of Oceanic Wind Turbines”*; sponsored by EDT
- “Hail Testing on Metal Roofs”*; sponsored by EDT
- “Heat, Air, and Moisture Control in Building Envelopes - APC presenter”*; sponsored by EDT
- “The Fine Print of Wood Design: Commonly Overlooked Code Provisions”*; Webinar sponsored by WoodWorks
- “Earthquake retrofit Solutions and Resources Webinar”*; Webinar sponsored by Simpson Strong-Tie
- “Next-Generation Stormwater Solutions: The Rise of High-Rate Biofiltration Solutions”*; Webinar sponsored by ConTech
- 2023 *“Type III Construction for Multi-Family: Best Practices and Detailing for Success”*; Webinar sponsored by WoodWorks
- “Exposure Category Determination and Impact on Residential Structures”*; sponsored by EDT
- “Sinkholes and Structural Damage: An Insurance Industry Perspective”*; sponsored by EDT
- “Civil/Structural Medley”*; sponsored by EDT
- “Commercial Roof Information, Evaluation, Repairs, and Reporting”*; sponsored by EDT
- “FTAO Analysis for Complex Wall Openings”*; Webinar sponsored by WoodWorks
- “Fire-Rated System in Wood Construction”*; Webinar sponsored by APA
- “Comparing Geogrids”*; Webinar sponsored by Tensar
- “Design of Post-Installed Adhesive Anchors into Cracked and Uncracked Masonry”*; Webinar sponsored by Simpson Strong-Tie
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- “Transportation Retrofit Post-Tension Bridges”*; Webinar sponsored by Simpson Strong-Tie
- 2022 *“Losses at Renewable Energy Installations”*; sponsored by EDT
“Technical Issues Regarding Premise Liability Matter”; sponsored by EDT
“Creative Engineering 101”; sponsored by EDT
“Construction Defects”; sponsored by EDT
“Windland Urban Interface & Mitigation Strategies”; sponsored by EDT
“Investigating Internal Combustion Engine Failures”; sponsored by EDT
“Concealed Spaces in Wood-Frame and Mass Timber Construction”; Webinar sponsored by WoodWorks
“Offsite Wood Construction: Reinventing the Role of the Design Professional”; Webinar sponsored by WoodWorks
“Effective Utility Records Research”; Webinar sponsored by ASCE
“Geo-Structural Investigation of Existing Structures”; Webinar sponsored by ASCE
- 2021 *“Photovoltaics & Energy Storage - How it can all go wrong”*; sponsored by EDT
“Hailstones - Impact Damage to Asphalt Roof Coverings”; sponsored by EDT
“Hurricane Damage: Storm Surge vs. Wind vs. Wind-driven rain”; sponsored by EDT
“Rooftop Solar Arrays: A civil/structural perspective”; sponsored by EDT
“Blast-related damage evaluation of residential structures”; sponsored by EDT
“Failure Analysis of Threaded Fasteners”; sponsored by EDT
- 2020 *“Structural Renovation of 100-years-old historic barn”*; sponsored by EDT
“Renovation of Slabs on Grade”; sponsored by EDT
“Permeable Pavement Design”; sponsored by EDT
“Antiquated Structural Systems”; sponsored by EDT
“Inspecting Earth Dams and Outlet Spillways”; sponsored by EDT
“Renovation of Residential Framing”; sponsored by EDT
- 2019 *“Building Your Practice - Means and Methods”*; sponsored by EDT
“A Forensic Engineer’s Guide to Geotechnical Field Analysis”; sponsored by EDT
“Vibration Damage - Is It all it’s Cracked Up to be?”; sponsored by EDT
“No Tears Veneers - Keeping Water Out of Walls”; sponsored by EDT
“Toybox for Civils”; sponsored by EDT
“Interdisciplinary Investigations”; sponsored by EDT
“International Existing Building Code Updates”; session sponsored by HalfMoon LLC
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- 2018 *“Assessment and Evaluation Methods and Tools of Structural Forensic Investigation”*; Webinar sponsored by ASCE
 “Fire Retardant Treated Wood/Pressure Treated Wood”; sponsored by EDT
 “Heat, Air, and Moisture Components of Building Envelopes”; presented to EDT
 “Introduction to 2015 International Existing Building Code”; Webinar sponsored by ASCE
 “Introduction to Wood Connection Analysis”; sponsored by EDT
 “The EDT Approach to Design/Construction Defect Investigations”; sponsored by EDT
- 2017 *“Ballast Water Management: Background, Practice, and Legislation”*; sponsored by EDT
 “Composite Strengthening Systems Workshop”; sponsored by Simpson Strong-Tie
 “Engineering Analysis and Failure: Determination of Cause in a Legal Environment”; sponsored by EDT
 “Evaluating and Rehabilitating Foundations and Retaining Walls”; sponsored by HalfMoon LLC
 “Failures Related to Concrete Volume Change and Restraint”; Webinar by ACI
 “Glass and Glazing: Design and Detailing”; webinar sponsored by ASCE
 “Mass Timber Construction Products, Performance, and Design”; seminar sponsored by WoodWorks Wood Products Council
 “MSE Retaining Walls – Design and Analysis”; sponsored by EDT
 “Technological Review of Unmanned Aerial Vehicle (UAVs) and Their Uses”; sponsored by EDT
- 2016 *“2015 International Building Code Review”*; seminar conducted by HalfMoon LLC
 “Diagnosis, Repair, and Restoration of Building Facades”; webinar sponsored by ASCE
 “Engineering Mid-Rise Buildings of Wood Construction”; webinar sponsored by ASCE
 “Lateral Load Resisting Systems in Masonry Construction”; webinar sponsored by ASCE
 “Philosophy of Structural Building Codes”; webinar sponsored by ASCE
 “Practical Design of Slabs on Grade”; webinar sponsored by ASCE
 “Renovation of Slabs on Grade”; webinar sponsored by ASCE
 “Structural Design of Steel Stairs and Rails”; webinar sponsored by ASCE
- 2015 *“ADA and Resulting Accessibility Standards”*; sponsored by EDT
 “Earthquakes – Key Concepts to Aid in Damage Evaluation”; sponsored by EDT
 “Engineering Investigations of Hurricane Damage: Wind versus Water”; webinar sponsored by ASCE
 “Federal Rules of Civil Procedure (FRCP) Rule 26 – Expert Reports”; sponsored by EDT
 “Managing Alkali-Aggregate Reaction Expansion in Mass Concrete”; webinar sponsored by ACI
 “Petrographic Analysis of Concrete Deterioration”; webinar sponsored by ASCE
 “The Role of the Specialty Engineer (From the Wood Truss Industry’s Perspective)”; webinar sponsored by ASCE
- 2014 *“ASCE 7-10 – Snow Load Provisions”*; webinar sponsored by American Society of Civil Engineers
 “Avoiding Failures of Retaining Walls”; webinar sponsored by ASCE
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- “Corrective Work in Steel Structures”*; webinar sponsored by ASCE
- “Design Snow Loads for Complex Residential Roofs”*; webinar sponsored by ASCE
- “FEMA P-807 – Seismic Evaluation and Retrofit – Weak First Stories,”* webinar sponsored by Applied Technology Council (ATC)
- “Roofing Systems: A Primer for Engineers”*; webinar sponsored by ASCE
- 2013 *“Design of Buildings for Coastal Flooding”*; webinar sponsored by ASCE
- “Roof Failure due to Snow Loading 2010-11, Southern New England Case Study”*; webinar sponsored by ASCE
- “Strengthening Wood Beams and Joists”*; webinar sponsored by ASCE
- “Post-Flood and Wind Safety Evaluation of Buildings – ATC-45 Field Manual,”* webinar sponsored by Applied Technology Council (ATC)
- 2012 *“Certified Roof Inspector – Residential Roofs”*; conducted by Haag Education LLC.
- “Elevated Work Platform Program, Rope Climbing Course”*; sponsored by EDT
- “Renovation of Wood Structures”*; sponsored by ASCE
- 2011 *“Advanced Design Topics in Wood Construction Engineering”*; class conducted by Virginia Polytechnic Institute and State University
- “Learning from Failures of Wood-Framed Structures”*; webinar sponsored by ASCE
- “Solar Power Design Workshop”*; seminar conducted by HalfMoon Seminars, LLC
- 2009 *Technical Review Workshop - LEED for New Construction and Major Renovations*; seminar by United States Green Building Council (USGBC)
- 2007 *“Confined Space Compliance”*; Safety and Health Council of North Carolina
- “Structural Condition Assessment of Existing Structures”*; sponsored by ACSE
- “Structural Design with Wood – An Introductory Course”*; class conducted by Virginia Polytechnic Institute and State University
- Fall Protection for Residential Construction*; OSHA, CT Department of Labor
- National Fire, Arson, and Explosion Investigation Certification*; NAFI/NFPA
- 2003 *Concrete Field Testing Technician*, ACI
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