

Frank Comer, PE

Professional Engineer, Principal Engineer

Engineer and Founder of PST since 1999



FComer@PSTKC.com

816.468.1200 913.219.2190

Education

Bachelor of Science in Civil Engineering (BSCE)
May 1994, University of Missouri - Kansas City
and University of Missouri - Columbia

Licenses

- Missouri Professional Engineer
License #029841 - since 1999
- Kansas Professional Engineer
License #16166 - since 2000
- Kansas City Business
License #0020343936 - since 2001
- Principal for Missouri Professional
Engineering Corporation
License #2005024551 - since 2005
- Florida Professional Engineer
License #102535 - since 2025

Certifications (short list)

- OSHA 40-Hour HAZWOPR
- Professional Estimating School
- Troxler Soil Testing
- ACI Concrete Testing
- Haag School of Roofing
- ASCE Phase I and Phase II ESA
- Geotechnical Soil Testing

Continuing Education

Extensive continuing education exceeding 100
hours a year, documentation available

Professional Qualifications

- Evaluation and or Assessment of Buildings:
 - Roof damage, related elements and system installation issues.
 - Termite, vermin, and pest damage.
 - Mold, mildew, and rot damage.
 - Impact damage - vehicles, trees, equipment loads, building contents, etc.
 - Water infiltration cause and origin and damage.
 - Hail and wind related storm damage.
 - Foundation movement and subsurface investigation.
 - Retaining wall structure design and failure analysis including both the design of the wall and analysis of slopes being retained.
 - Horizontal and vertical movement in structures.
 - Product and construction defects on residential and commercial buildings and products.
 - Product liability assessment on a full range of products and materials related to not only buildings but also vehicles and other systems and products.
- Expert witness testimony, third-party arbitration, mediation assistance, negotiations, forensic investigation into cause and origin of failures as a Civil, Structural, Geotechnical, Environmental Engineering, Schematic Design, Design Development and construction drawings, construction administration and construction observation.
- Engaged as a third-party consultant/expert for disputes.
- Retained as an expert witness on behalf of both plaintiffs and defendants in legal proceedings and pre-litigation work.

Relevant Experience

- Appointed to perform third-party construction and special inspection services ensuring compliance with project specifications and code requirements.
- Sought out to perform residential and commercial "due diligence" inspections for property owners/buyers.
- Forensics investigations of cause and origin of failures, product defects, and damage and loss mitigation and repair/correction which often includes repair design.
- Project management on commercial and residential projects.
- Damage assessment investigations collapsing structures or wall systems to failing retaining walls, flooding properties and/or buildings, water seepage- related investigations and building element failure analysis from air and water entry to fire damage assessment.

LICENSES

- Missouri Professional Engineer License #029841 - since 1999
- Kansas Professional Engineer License #16166 - since 2000
- Kansas City Business License #0020343936 - since 2001
- Missouri Professional Engineering Corporation License #2005024551 - since 2005
- Missouri Professional Architectural Corporation License #2025013327 - since 2025

EDUCATION / CERTIFICATIONS

Bachelor of Science in Civil Engineering (BSCE) - May 1994, University of Missouri - Kansas City and University of Missouri – Columbia, by the Coordinated Undergraduate Engineering Program.

Specialization: Forensic Engineering, Civil, Structural, Geotechnical, Environmental including building-related construction materials & systems from the ground up, as well as inspections and project management.

Professional Education & Certifications: OSHA 40-Hour HAZWOPR, Professional Estimating School, Troxler Soil Testing, ACI Concrete Testing, Haag School of Roofing, ASCE Phase I and Phase II ESA, Geotechnical Soil Testing and many other hours of continuing education courses and specialized training.

CURRENT ENGINEERING MEMBERSHIPS

ASCE – American Society of Civil Engineering - since 1992
SEI – Structural Engineering Institute - since 1992
ICC – International Code Council - since 2006
ASCE Section – Kansas City Section - since 1992

Principal, CEO and Chief Investigating Engineer, 1999 – present

PROPERTY SERVICES TEAM LLC, DBA PST ENGINEERING AND ARCHITECTURE

8141 N. Oak Trafficway, Suite D, Kansas City, MO 64118

PST is a Consulting Engineering and Architecture firm specializing in investigations and design regarding residential and commercial properties of all sizes, including multi-family structures, parking garages and other buildings. PST performs design, analysis and forensic investigation of many building and construction systems and products as well as machinery and their systems, construction materials and systems used in the construction of buildings and/or used in the development of property regarding various geotechnical, civil, structural and environmental issues and concerns, in product liability cases and others.

PST also evaluates damage to properties, buildings, homes, boats, structures, materials, systems, elements, machinery, etc., reviewing information provided or presented; performing tests we may conduct or ask to be conducted; analyzing results (through measurement and/or calculations and through currently observed and measured effects) and then determining whether past discoverable and/or known events or occurrences have any correlation with current observations, and/or are relative or direct causation of same.



Projects also include other small-to-medium structures such as individual beams or walls, any structure from small pergolas to large shopping centers, retaining wall structures of all sizes including their structural elements and general overall and specific designs. As the Senior Engineer, Frank often is :

- Engaged as a third-party arbitrator for insurance-related claims and disputes.
- Retained as an expert witness on behalf of both plaintiffs and defendants in legal proceedings.
- Appointed to perform third-party construction and special inspection services ensuring compliance with project specifications and code requirements.
- Sought out to perform residential and commercial "due diligence" inspections for property owners/buyers.
- Forensics investigations of cause and origin of failures, product defects, and damage and loss mitigation and repair/correction which often includes repair design.
- Project management on commercial and residential projects.
- Damage assessment investigations of many kinds from collapsing structures or wall systems to failing retaining walls, flooding properties and/or buildings, water seepage- related investigations and building element failure analysis from air and water entry to fire damage assessment.
- Perform Reserve studies and PCAs for commercial properties.

Licensed Professional Engineer in MO and KS with multidisciplinary expertise in civil, structural, mechanical, electrical, and plumbing systems. Experienced in planning review, design analysis, and providing detailed recommendations for repairs and code-compliant corrections.

Provides:

- Expert witness testimony, third-party arbitration, mediation assistance, negotiations, forensic investigation into cause and origin—Civil, Structural, Geotechnical, Environmental.
- Conflict Resolution, Expert Communicator and work toward resolving conflicts at all levels for all parties, including opinions and/or recommendations provided on properties including:
- Evaluations and Assessment of:
 - Roof damage, related elements and system installation issues.
 - Termite damage.
 - Impact damage - vehicles, trees, equipment loads, building contents.
 - Water infiltration cause and origin and damage.
 - Hail and wind related storm damage.
 - Foundation damages.
 - Retaining wall structure design and failure analysis including both the design of the wall and analysis of slopes being retained.
 - Horizontal and vertical movement.
 - Product and construction defects on residential and commercial buildings.
 - Product liability assessment on a full range of products and materials related to not only buildings but also vehicles and other systems and products; and Engineer's estimate of damage repair costs and/or reserve study analyses.

- Construction Consultant services:
 - Has performed inspections and/or structural design recommendations or drawings for more than 10,000 residential and commercial properties.
 - Structural Design of a variety of different sized steel, concrete and wood structures and foundations including reinforced concrete or steel bridges; aluminum reinforced foundations for hospital equipment; small, medium and large retaining wall structures, small-to-large houses and one-story to five-story commercial building structures; small-to-large parking garage structure damage assessment and repair design analysis.
- Environmental services include indoor air quality assessments, and radon and mold assessment inspections and investigations. I am a Qualified Environmental Professional providing EQ, RSRA, TSA and Phase I ESAs to business owners, property owners and purchasers and lending institutions.

CAREER HISTORY

Kansas City Division Manager, 1997 - 1999 GEOTECHNICAL SERVICES, INC.

Geotechnical consulting/engineering firm specializing in subsurface exploration, environmental engineering and sampling, pavement design, construction materials testing and special inspections services for commercial buildings.

- Responsible for oversight of subsurface investigation and/or construction inspections and testing for many projects including but not limited to the following:
 - Kansas City Community Centers
 - Kansas City, MO School District
 - Lee's Summit Water Tower
 - Pleasant Hill High School
 - Merriam Shopping Center MSE Retaining Walls
(*Johnson Drive & I-35*)
 - Universal Underwriters (*8-story building*)
 - Kearney School District
 - Improvements - PMT
 - Metcalf 127 Retail Center
 - Rockhurst College
(*Settlement Foundation Retrofitting*)
 - Johnson County Detention Center (jail)
 - Prairie View Middle School

Project Engineer, 1995 - 1996

NORTON AND SCHMIDT CONSULTING ENGINEERS

Civil engineering design and consulting firm specializing in inspections of commercial and residential buildings, structural design elements and structural damage assessment.

- Designed numerous structural elements, foundation systems, structural walls, slabs on residential and commercial structures.
- Inspected individual and multifamily residences as well as commercial buildings including roofs, foundations, structural elements, mechanical systems, electrical systems, plumbing systems and HVAC systems.

Staff Engineer, 1994 - 1995

SCS ENGINEERS

Environmental consulting engineering firm specializing in landfill design, containment & closure and construction quality assurance services.

- Performed construction oversight on large Midwest landfills during complete construction including:
 1. Butler County Landfill, Cell 1, Phase 2, NE – Construction oversight, construction management. Managed private owner communication; oversaw several EITs during quality assurance and design review. ➤ Project completed ahead of schedule and at 1/3 of Phase 1 budget, due in large part to my excellent communication skills and ability to excel under pressure, improvise, utilize teamwork and meet deadlines.
 2. St. Joe Landfill, Area 3, Phase 2, MO – Construction oversight, construction management, private owner communication, managed several EITs during quality assurance and design review. ➤ Project successfully completed under winter construction circumstances at client's insistence.
 3. Springfield Landfill Cell 1 Modification, Cell 2 Expansion, Test Pad Construction, MO – Projects completed under difficult circumstances due to low-bid contractor selected by municipality with no landfill clay-liner installation experience. ➤ Mitigated large liability lawsuit through impeccable recordkeeping that documented contractor's lack of expertise and inefficiencies.
 4. Wellsville Firebrick Landfill Closure, MO ➤ Project completed on-time and on-budget; contractor very good to work with and client had reasonable expectations.
 5. Directed construction of landfill clay-liner system at Butler County, NE, Landfill; St. Joe, MO Landfill; Springfield, MO Landfill.
 6. Project manager at Wellsville Firebrick Landfill Closure, MO. Conducted all weekly progress meetings; reported to Senior Project Manager.

Technician/Engineering Apprentice, 1986 - 1994

ALPHA-OMEGA GEOTECH, INC.

Geotechnical consulting engineering firm specializing in subsurface exploration, retaining wall design, dam design construction, materials testing and special inspections services. Trained under Dr. Roy J Leonard.

- Inspected construction projects for code or plan specification violations including but not limited to:
 - Lenexa Elementary School, Lenexa, KS
 - Blue Valley Schools, Overland Park, KS
 - Lee's Summit Business Park
 - Funston Road Improvements, KC, KS
 - Master Mud-jackers Mix Design
 - Steel Plant Metals Remediation, KC, KS (Superfund)
 - MO River Levee Investigation - Scour/Boiling
 - Aldi Grocery Store Backfill and MSE Wall Project
 - Mill Street Bridge, KC, KS
 - Aldi Grocery Store, Warrensburg, MO
 - The Woodlands Dog & Horse Racetrack, KC, KS
 - Lawrence Shopping Center, Lawrence, KS
- Managed laboratory technicians and field technicians.
- Performed all phases of investigations and testing in the field and laboratory, from drilling and sampling and materials testing in the field to soil and materials testing in the laboratory; including soil compaction and backfill placement, concrete, grout, mortar, asphalt, bolts, welds, reinforcing steel, CMU block installation and construction, steel fabrication in the plant and construction on site, etc., in the field to basic laboratory and "clean laboratory" testing including general tests such as moisture, plasticity, shrink, swell, hydrometer, consolidometer, direct shear, tri-axial and many other soil tests to aggregate gradation, asphalt content, concrete curing and compression tests and many other laboratory tests.
- Designed and inspected the construction of earth dams, timber, concrete, gabion, stone, block and various types of MSE retaining walls. Designed and inspected the construction of many footings, foundation walls, floor slabs, structural fill, slopes and deep foundation supports such as driven piles, concrete piers, etc.

Property Insurance Claims Adjuster, 1982 - 1986

NORTHLAND ADJUSTING SERVICES, INC.

My property-related career began as an insurance adjuster. Managed and coordinated claims of a personal injury nature, then moved into automotive claims adjusting and ultimately most of my experience in the claims industry encompassed commercial and residential property damage claims coordination and oversight.

PROFESSIONAL SERVICES/VOLUNTEER WORK PRESENT AND PREVIOUS

- Platte County EDC - Member volunteering to help better the county by assisting in the planning of not only the marketing program they have established but also the KCI Area Development process.
- Clay County EDC - Member volunteering to help better the county by assisting the various subcommittees to work closely with the NEBA (Northland Education and Business Alliance).
- Gladstone Area Chamber of Commerce - Member volunteering to help better the City of Gladstone and surrounding communities by assisting the various subcommittees.
- Structural Engineers Committee - Supported meetings with and worked toward improving education of industry professionals.
- International Conference of Building Officials – ICBO. Member of Committee for those involved in construction of buildings of all kinds. Code materials and upgrades of same.

PERSONAL INFORMATION

Age: 62 Citizenship: United States of America

Married 39 years — four (4) children:

- 21: Environmental Engineering Student at ASU
- 24: Construction Management Graduate from Missouri State University, Project Mgr at PST
- 30: Engineering Intern Graduated from UMKC, Engineer at PST
- 39: Civil Engineer with PE and master's degree; Honorably Discharged Naval Officer and Nuclear Engineer

- Boy Scout Leader since 2002 – Currently I'm the Life-to-Eagle-Scout Coordinator for Troop 1096; Retired Scout Master; Founder of St Patrick Parish Boy Scout Troop 1096 and Founder of St Patrick Parish Cub Scout Pack 4096; Retired Cub Master and Den Leader for Pack 4096
- Property and Grounds Improvement Engineer (*volunteer, reporting to the Deacon of our Church*) Liaison for Scout Program and St. Patrick Parish.
- Knights of Columbus 3rd & 4th Degree – Volunteer time to raise money for the needy and the disabled.
- Member of SASS - Single Action Shooters Society (*Cowboy Shooting name: Pocket Protector*).
- Member of NRA - National Rifle Association.
- St. Pius X (*High School*) Substitute Teacher – Science and Mathematics, Parents Club Volunteer.
- St. Patrick (*Grade School and Middle School*) – Volunteer and Watchdog Dad.
- YMCA and St. Patrick School - Volunteer basketball coach for K-8th grades.
- Free Mason 3rd Degree.
- Private Pilot: Single Engine Aircraft
- United States Army Reserve - Honorably discharged in 1987 - Proud to have served!

COMMITTED TO CONTINUING PROFESSIONAL EDUCATION

(Partial list: source or specialty of seminars, webinars, workshops, testing, certifications, research, training, tours & courses.)

5/11/2025	Codes of Standard Practice for Steel Bridges by AISC - Analysis, bridge design update review as well as review of county bridge design requirements and inspection requirements as well (currently). Culvert design requirements and assessment of different types of bridge replacement for the new owner. Analysis
5/10/2025	Construction defect with regard to installation of materials on a large (two-building, multi-story, condominium project) and the overall impact of significant moisture intrusion at exterior walls and at the plaza deck over parking garages - research performed included plan review analysis vs standards of practice and standards of care for the industry in production of same by other architects and engineers, as well as building code review and analysis past and present, and an interpretation of whether an investigation prior to this second failure of building materials could have led to the cause of current problems. The impact of new construction attached to existing older construction. Analysis
5/1/2025	Building material collapse case - research included review of all the materials involved with the design of the original closet door, a by-passing closet door, vs as-built condition of the door's construction... and installation, vs the design document requirements vs the manufacturer's installation requirements. Determining standards of care and practice for installation of by-pass closet doors. Analysis
4/1/2025	Construction defect related to the improper installation of materials during a home remodeling project. Research involved a detailed review and interpretation of applicable building codes adopted in the project's jurisdiction. Additional analysis focused on the structural and regulatory implications of integrating new construction with existing older structures. Analysis
3/19/2025	MasterFormat Specifications Standard for Commercial Building Design Construction Specifications Institute (CSI) and Construction Specifications Canada (CSC) -Analysis
12/18/2024	Wind Loads Guide to the Wind Load Provisions of ASCE 7-16 - Analysis
12/17/2024	TMS Masonry Structures ACI 530 ASCE 5-99 - Analysis
11/30/2024	Investigation of a deteriorated building to assess whether the damage could be attributed to a storm-related event. The findings concluded that the deterioration was not storm-induced. Research included an analysis of historical weather data, including wind velocities, and their potential effects on building components. Additional evaluation covered the design, construction practices, and materials typical of older buildings. Analysis
11/5/2024	Settlement of the Foundation Structures: Types, Signs, Causes, Prevention & Correction Methods Course IS01-015 - Certificate
10/24/2024	FBC 2020 Advanced: Residential Swimming Pools Requirements and Scope -Analysis
10/23/2024	Evaluation of Failure of Design and construction of public swimming pools and aquatic attractions, including considerations for safety, accessibility, hydraulics, and code compliance. - Analysis
9/30/2024	Bridge Inspection Rating and Critical Inspection Findings MODOT - Analysis
9/30/2024	Bridge Redundancy and Fraction Critical Members MODOT - Analysis
9/30/2024	Engineering for Bridge Inspection Rating MODOT - Analysis

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Curriculum Vitae

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9/30/2024	Bridge Maintenance and Expansion Joints MODOT - Analysis
9/11/2024	Typical Soil Properties American Society of Agriculture & Bio Engineers - Analysis
9/11/2024	Segmental Retaining Walls National Concrete Masonry Association 2010 -Analysis
7/1/2024	Conducted research to evaluate the effects of moisture on high volume change (HVC) soils beneath foundation systems, as well as the influence of hydrostatic forces on soil behavior. Analysis
6/28/2024	2018 wood Frame Construction Manual ANSI American Wood Council AWC
5/23/2024	Water Penetration Resistance Design & Detailing Technical Notes on Brick Construction Technical guidance on the design and detailing for water penetration resistance in brick construction, based on best practices and industry standards -Analysis
5/22/2024	Construction Standards - Residential & Light Commercial -Analysis
5/20/2024	Soil Strength & Stability -Analysis
5/15/2024	American Public Works Association - APWA Storm Drainage Systems & Facilities Standard Specifications & Design Criteria Section 5600 -Analysis
5/3/2024	Clifton Block Retaining Wall System -Segmental Retaining Walls Midwest Manufacturing -Analysis
4/25/2024	Collapsing roof of a building - investigation into whether or not storm related occurrence could have caused the damage or not - it did. Research was performed to determine past occurrences, storm wind velocities and their impact on building elements. Analysis
4/16/2024	Weyerhaeuser - TimberStrand, Microllam, Parallam - Design and Specifications -Analysis
2/28/2024	Frequently Misunderstood Foundation Design Provisions - Certificate
2/28/2024	American Concrete Institute - ACI 318 Code Provisions For Deflection Control of Two-Way Concrete Slabs -Analysis
2/22/2024	Tilt-Up Wall Design Provisions: Proper Application - Certificate
2/22/2024	Specifications for Serviceability Considerations in Steel Building Structures -Analysis
2/15/2024	Serviceability Design for the Practicing Engineer - Certificate
2/14/2024	Design of Loadbearing Tall Wood Studs for Wind and Gravity Loads - Certificate
1/30/2024	Construction defect with regard to installation of materials - research performed included building code review and analysis, current codes vs. older codes and an interpretation of adopted codes for the location. Other research included the impact of improperly consolidated concrete resulting in "honey-combing", as well as moisture intrusion into the home and voided product warranties due to improperly installed building elements. Analysis
1/26/2024	American Wood Council - AWC- 2021 Design Values for Joists & Rafters -Analysis
1/26/2024	American Wood Council - AWC - 2021 Span Tables for Joists and Rafters -Analysis
1/25/2024	American Plywood Association - APA Panel Design Specifications for 2008 -Analysis
1/24/2024	Construction Specifications for High Wind Resistance -Analysis
12/1/2023	Landslide/slope failure case - research included updating our database on soil properties information for the specific site as well as evaluating newer software programs and their effectiveness in slope

	stability analysis evaluations compared to hand calculations. Extensive research into the application of the building code to original development of the property vs. construction of the homes (3 homes impacted by the slope failure) as well as the responsibility of the original design engineer who had designed two fixes to the slope that did not last and themselves failed, thereby allowing the slope to continue to fail. -Analysis
11/1/2023	Research was performed to determine the impact of moisture on high volume change (HVC) soils beneath foundation systems as well as hydrostatic action on soils. -Analysis
9/27/2023	Part 1: Evaluation and Modification of Open Web Steel Joists and Joist Grinders - Certificate
9/13/2023	STO Powerwall, Dens Glass, USG SureRock, Podium Slab Design with Carlisle and WR Meadows Products, Review of Changes from 2006 Forward -Analysis
9/7/2023	Do's and Don'ts of Concrete Repair and Protection Part 2 - Certificate
6/8/2023	Analyses and Design for Mitigation of Disproportionate Collapse of Buildings and Structures by ASCE - Certificate
5/30/2023	The Masonry Society - TMS 402/602-16 Building Code Requirements and Specification for Masonry Structures -Analysis
5/22/2023	LP SmartSide 38 Series Strand Substrate Vertical Siding for Board & Batten Applications -Analysis
5/22/2023	Installation Procedures and Limitations of LP SmartSide Trim & Fascia -Analysis
5/22/2023	LP SmartSide Panel Siding Specifications -Analysis
2/16/2023	Armour Stone Retaining Wall Design and Specifications -Analysis
2/9/2023	Analysis of Existing Gravity Wall for Stability, Overturning, and Slip -Analysis
2/9/2023	Mechanical Stabilized Earth - MSE Wall Design - Maximum Bearing Pressure with Vertical Surcharge Force -Analysis
2/9/2023	Mechanically Stabilized Earth - MSE Walls and Reinforced Soil Slopes Design and Construction Guidelines -Analysis
2/9/2023	Analytical Methods and Construction Techniques for Rockeries to Develop Framework Specifications and Construction -Analysis
2/9/2023	Assessment of Dry Stone Retaining Wall Stability on a Rigid Foundation -Analysis
2/9/2023	Terra Aqua Gabions Gravity Retaining Wall Specifications for Investigation -Analysis
2/9/2023	US Army Corps Retaining and Flood Walls Subjected to Hydraulic Loadings such as Flowing Water, Submergence, Wave Action, and Spray, Exposure to Chemically Contaminated Atmosphere, and/or Severe Climatic Conditions -Analysis
2/9/2023	Missouri Department of Transportation Bridge Division: Design Specifications and Principles for Retaining Walls -Analysis
1/15/2023	Research was performed to assess the effects of hydrostatic pressure on swimming pools. -Analysis
12/12/2022	Sampling Methodologies for the Investigation of Constructed Facilities -Analysis
12/12/2022	Design Codes and Standards, Construction Safety Regulations, Tools of Investigation and Analysis for Forensic Engineering Practice -Analysis
12/12/2022	Elevating Forensic Engineering: Application of Engineering Principles to the Investigation of Civil Infrastructure Failures - ASCE 2022 -Analysis

12/12/2022	Forensic Engineering Collaborative Analysis for Structural Safety - ASCE 2022 -Analysis
12/12/2022	Design of Blast-Resistant Buildings in Petrochemical Facilities -Analysis
12/8/2022	US Forest Service Picnic Table Snow Load Specifications -Analysis
11/24/2022	Testing and Repair of Concrete of post-fire Forensic Investigation and Structural Assessment -Analysis
11/24/2022	Roofing and Drainage: Failures of Roof Modifications, Roof Drainage Deficiencies, Roof Blisters - Analysis
11/22/2022	Wind Load Paths in Fabric Membrane Structures -Analysis
11/22/2022	Wind induced Failures of Flexible Structures -Analysis
11/22/2022	Bearing Capacity Failure of Excavated Footing and construction Influences on Wall Pressure -Analysis
11/21/2022	Long Span Wood Trusses: Temporary Bracing and Preventing Catastrophic Collapse Under Construction -Analysis
11/19/2022	Soil Settlement and Water Damage due to Adjacent construction: Risk factors of Underpinning - Analysis
11/18/2022	Failure Prediction, Testing and Retrofit of Open Web Steel Joists and Wind distress on Tile Roofs - Analysis
11/17/2022	The Impacts of Aging Infrastructure and Evolving Load Conditions: Earth Retaining Wall Failure - Analysis
11/17/2022	Concrete and Materials: Repair of Existing Post Tensioned Concrete Slab -Analysis
11/17/2022	Evaluation of Structural and Consequential Damages Resulting from Vehicle impact to Structures - Analysis
11/16/2022	Design and Analysis of Concrete Masonry and Precast Concrete Lintels -Analysis
11/16/2022	Mitigating Wood Framed Egress Stair Stringer Failures and Evaluating Screw Connections in Aluminum -Analysis
11/15/2022	Parking and Storage Structures Problems, Repairs and Assessment of Concrete and Steel Framed Structures -Analysis
11/15/2022	Evaluation of Slope Failures on Shoring Walls and Drilled Piers -Analysis
11/14/2022	Material Performance, Failure Studies of Concrete Structures and Metal Building Roof Collapses - Analysis
11/12/2022	Construction and Infrastructure Performance, Construction Safety: Inspection and Monitoring Strategies -Analysis
11/11/2022	Building Enclosures and Technologies for Forensic Investigation: Dating Hail Damage and Assessing Water Damage from Ice Damming -Analysis
11/10/2022	Natural Disasters and Extreme Conditions: Forensic investigations regarding Large Volume Low Rise Buildings -Analysis
11/9/2022	Machine Learning and Emerging Technologies for Forensic Engineering -Analysis
11/7/2022	Case Study Assessments: Cloud-Based GIS Mapping Software as an Evaluation Tool for Condition Assessments, Analysis of Local News Articles in Digital Reconnaissance of Buildings and Other Structures after Natural Hazards, BIM and Building Emergency Response Management at ASCE Forensic Engineering Congress - Certificate

11/7/2022	Analysis and Repair: Testing and Repair of Concrete in the Context of Post-Fire Forensic Investigation and Structural Assessment, Repair Recommendations After a Forensic Investigation at ASCE Forensic Engineering Congress - Certificate
11/6/2022	Wood Trusses and Beams regarding Hanging Load Failures, Metal Plate Connection Failures, Wood Bowstring Trusses and Permanent Bracing -Analysis
11/6/2022	Facades: Exposed Concrete Design, Construction, and Maintenance Considerations including Investigation of Masonry Veneer Anchorage and Transitional Construction Restoration at ASCE Forensic Engineering Congress - Certificate
11/6/2022	Structure Awareness: Signs of Impending Collapse, Assessing the cause of observed distress: Assessment and Responsibility -Analysis
11/6/2022	Foundation and Slope Failure: Evaluation of Shoring Wall Failure, Drilled Pier Failure Investigations, Analyses of Slope Failure and Development of a Reclamation Plan, Analyses of Slope Failures Resulting During and After the Construction of a Natural Gas Pipeline at ASCE Forensic Engineering Congress - Certificate
11/6/2022	Investigation and Repair: Mitigating Wood-Framed Egress Stair Stringer Failures, Evaluation of Screw Connections in Aluminum Members, Investigation and Methodology Approaches, Investigation and Repair of a Leaking Travertine-Faced Precast Concrete Façade at ASCE Forensic Engineering Congress - Certificate
11/5/2022	Hail and Ice Damming: Investigation and Determination of the Date of Hail Impact Damage, Benefits of Evaluating Interply Bitumen in Bituminous Roofing Membrane Samples in Assessments of Hail Impact Distress, Assessing Hail Damage to Tile Shingles, Water Intrusion Ice Damming Examples at ASCE Forensic Engineering Congress - Certificate
11/5/2022	Foundation Damage Assessments and Structural Repairs: Expansive Soils, Foundation Movement, Evaluation methods for Localized Differential Foundation Movement including Post-tensioned Concrete Foundations at ASCE Forensic Engineering Congress - Certificate
11/5/2022	Adjacent Construction: Soil Settlement and Water Damage due to Adjacent Pile Installations, Risk Factors During Underpinning of Historic Structures, Case Studies in Adjacent Construction Risk Management at ASCE Forensic Engineering Congress - Certificate
11/5/2022	Professional Practice in Forensic Engineering and Analysis, Design, repairs and Remediation: Defining Structural Collapse and Standard of Care -Analysis
11/5/2022	Technical and Code Aspects of Investigation of Fire Impact on Buildings -Analysis
11/4/2022	Guidelines for Failure Investigations Volume 2: material properties, construction & fabrication techniques, and materials testing and building envelopes with construction practices regarding failure investigations at ASCE Forensic Engineering Congress - Certificate
11/4/2022	Limiting Liabilities Through the Claims Resolution Process at ASCE Forensic Engineering Congress - Certificate
11/4/2022	Shear Testing for Bonded Concrete and Structural Performance of Concrete Corners reinforced with Steel under Static Loading -Analysis
10/6/2022	Guidelines for Failure Investigations of Buildings, Bridges and Constructive Facilities -ASCE -Analysis
9/6/2022	Specifications for Property Maintenance Requirements with Required Property Improvement Provisions - 2015 International Property Maintenance Code -Analysis
7/19/2022	USDA Retaining Wall Design Guide Review and Evaluation for Current Applications -Analysis
7/6/2022	Water Stop Design for Foundation Walls with Suspended Slabs -Analysis

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Curriculum Vitae

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6/27/2022	Retaining wall and slope failure caused by inadequate engineering design -Analysis
6/1/2022	ProCore - Project Management and Documentation Software Integration with Field Inspections and Office Design - Course
5/31/2022	Risk Category Assessment discussion review -Analysis
5/4/2022	Design and Inspection of Overhead Signs and Support Structures -Analysis
5/1/2022	Asdana - Task Management Software Integration with Field Inspections and Office Work - Course
4/6/2022	Performance of Walls Related to Moisture Penetration and Energy Efficiency - Building Envelope - Analysis
4/1/2022	Archsite - Architectural Design Software Integration with Field Inspections and Office Design - Course
2/16/2022	Tipping Floors and their Design in Solid Waste Treatment Facilities and Transfer Stations -Analysis
12/23/2021	NSPE Guideline on Dangerous Buildings and "When to Notify" vs Public Health and Safety -Analysis
11/30/2021	Holding Tank Design and Construction Review -Analysis
11/29/2021	Understanding the Investigatory and Disciplinary Practices of the Missouri Division of Professional Registration and Complying with Rules of Professional Conduct by HalfMoon Education - Certificate
11/29/2021	Contract Law Primer for Engineers, Professional Liability Law, Professional and General Liability Insurance by HalfMoon Education - Certificate
11/20/2021	MO Board of Engineers / Architects Newsletter 11-11-2021 by MO Dept of Commerce & Insurance - Certificate
11/10/2021	Lathe, Plaster, Portland Cement and Proper Installation of Masonry - NCMA Installation Guidelines - Analysis
10/20/2021	Homeowners Insurance Policy Terminology and Limitation relative to Legal Cases in Missouri and Kansas - Analysis
10/5/2021	How Experts Can Persuade with Clarity by Experts.com - Course
10/1/2021	Soil study investigation into online government data - Analysis
8/29/2021	Drainage investigation for Water Volume Flow into Cave system -Analysis
9/1/2021	Grade and Drainage - Topography - Pool new construction blamed by original grading causes - Analysis
8/24/2021	Water leak and building material shrinkage study related to building envelope investigation -Analysis
8/9/2021	Case Study Review of Homes Inspected in JoCoKS vs JoCo Basement Finish Guideline Bookle -Analysis
7/29/2021	Design Review of Blast Resistant Buildings in Petrochemical Facilities -Analysis
7/20/2021	Erosion and Sediment Control Model Ordinance for Municipalities -Analysis
7/15/2021	Foundation Damage from settlement related to builder fault -Analysis
7/13/2021	EPA vs City of KCMO - Erosion, Runoff, Storm Sewers and Sanitary Sewers Case Study -Analysis
6/16/2021	1991 UBC and Clay County (1997) Guidelines -Analysis

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5/10/2021	MO Board of Engineers / Architects / Architects Newsletter 5-1-2021 by MO Dept of Commerce & Insurance - Certificate
3/11/2021	Gardner
2/1/2021	Tall retaining wall investigation and research into causes and origins of failure vs design and construction materials used on site (MSE walls) -Analysis
12/15/2020	STO Powerwall, Dens Glass, USG SureRock, Podium Slab Design with Carlisle and WR Meadows Products -Analysis
11/15/2020	MO Board of Engineers / Architects / Architects Newsletter 11-02-2020 by MO Dept of Commerce & Insurance - Certificate
8/19/2020	IPC 2012 and 2018 Regarding Storm Water Design and Buildings -Analysis
8/15/2020	Roof Design, Runoff Calculations and Piping Design -Analysis
8/14/2020	Roof Design, Runoff Calculations and Piping Design -Analysis
7/22/2020	Foundation Damage Assessment and Repair Alternatives: Science Materials & Techniques by Half Moon Edu Inc - Certificate
5/5/2020	MO Board of Engineers / Architects Newsletter 5-1-2020 by MO Dept of Commerce & Insurance - Certificate
5/5/2020	Failure of mechanical systems to heat/cool per design when the as-built condition did not match the designed condition, Failure of plumbing system (sewer) when the as-built condition does not match the designed condition -Analysis
5/4/2020	Coping with Coronavirus -Contractual Changes: Design Firm Challenge by Hall & Co -Certificate
4/19/2020	Truss Design Failure Analysis, wind effects on truss roof framing & failure analysis as related to the impact of high wind and differentially sized adjacent trusses -Analysis
4/20/2020	Geosynthetic Applications for Construction Expediency by Tensar - Certificate
2/7/2020	Retaining wall and slope failure caused by inadequate engineering design -Analysis
11/10/2019	MO Board of Engineers / Architects Newsletter 11-1-2019 by MO Dept of Commerce & Insurance - Certificate
11/7/2019	Weber
6/28/2019	Slope Stability Analysis and Repair Techniques by American Institute of Architects by Half Moon - Certificate
6/1/2019	2018 Building Code Review - IBC & IRC, compare and contrast with previous versions - civil, structural and geotechnical - review and compare/contrast all sections and the commentary -Analysis
5/30/2019	Log Home Construction -Analysis
5/30/2019	Smoke Damage Mitigation/Repair & Restoration for Log Homes vs Tract-Built (Typical) Residential Homes -Analysis
5/20/2019	Estimating Damage to Log & Tract Homes - Cost Evaluation -Analysis
5/15/2019	MO Board of Engineers / Architects Newsletter 5-14-2019 by MO Dept of Commerce & Insurance - Certificate
5/10/2019	Fire Damage to Log Homes & Residential Homes -Analysis
5/13/2019	Fire Performance of Log Homes -Analysis

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5/12/2019	Media Blasting Methodology -Analysis
5/10/2019	Eastern Red Cedar Performance Statistics -Analysis
5/10/2019	Odor Removal - Log vs Tract Homes -Analysis
5/10/2019	Building Code Requirements relative to International Building Codes 2018
4/22/2019	Framing analysis & building code review for concrete tile roof coverings -Analysis
3/1/2019	Analysis program Calculations Software Geostase for Failures and Slope Stability investigation - Course
1/1/2019	Analysis program Structural Calculations Software TEDDS for Failures of structures by material - Course
11/10/2018	MO Board of Engineers / Architects Newsletter 11-07-2018 by MO Dept of Commerce & Insurance - Certificate
10/3/2018	American Wood Council - Special Design Provision for Wind and Seismic by ANSI -Analysis
9/27/2018	Earth Retaining structures selection, design construction and inspection by ASCE - Certificate
9/25/2018	Structural-condition assessment of existing structures by ASCE - Certificate
9/15/2018	Determining an improperly installed Leaf slugger gutter protection system -Analysis
9/13/2018	Historical Property - property condition and research of historical property repair procedures - Analysis
9/13/2018	Smoke Damage - Log cabin analysis and determination of process to repair and conceal smoke damages, Repair of Fire & Smoke Damaged Log Homes vs. Tract-Built (Typical) Residential Homes - Analysis
9/5/2018	Foundation Drainage & Footings - 2015 International Residential Code -Analysis
8/14/2018	Sewer Pipes evaluation and research - failure of pipes and non disclosure of condition and maintenance -Analysis
7/13/2018	Code Violations - rental property responsibility of landlord and violations -Analysis
6/27/2018	Deck design & attachment to home with building code review to IRC 2012 -Analysis
6/8/2018	Asphalt - analysis of condition and quality based on minimal properties -Analysis
5/4/2018	Window tint - film installation procedures and cause of glass failure based on reflective heat and window types -Analysis
5/5/2018	MO Board of Engineers / Architects Newsletter 5-01-2018 by MO Dept of Commerce & Insurance - Certificate
4/26/2018	Drainage investigation and research of homeowner associations regulation, KCMO building codes - Analysis
4/12/2018	Furnace Failure - examination, design & Construction & installation of wall furnace units to determine cause of failure -Analysis
4/10/2018	Research food quality cooler installation requirements & property lease contracts and definitions - Analysis
4/5/2018	Fungi Data Interpretation CET Center for Environmental Training- Certificate

3/27/2018	OSB Sheathing APA Rated & Structural 1 Sheathing Specifications -Analysis
3/2/2018	Private Planned community - home association rules regulations & responsibilities re: building property maintenance -Analysis
3/2/2018	Underground sewer systems - research municipal codes, civil engineering underground sewer systems, EPA -Analysis
1/20/2018	Evaluation of Soil Morphologist Report and Septic Geotech evaluations -Analysis
12/17/2017	Waiving Privilege Review Cyber Confidentiality by US Risk Pros -Certificate
11/21/2017	Construction Materials Shrinkage - evaluation and research of materials and their moisture equilibrium -Analysis
11/13/2017	Fill Soil - new construction requirements and limits and standards regarding fill composition -Analysis
11/5/2017	MO Board of Engineers / Architects Newsletter 11-01-2017 by MO Dept of Commerce & Insurance - Certificate
10/27/2017	Hail and Wind Related Storm Damage - regional effect impact and damages -Analysis
10/12/2017	Window - requirements for design and installation from 1998 to 2017 -Analysis
8/31/2017	Tile Roof - investigation of manufacturer defect of tile roof materials -Analysis
7/12/2017	Hail and Wind Related Storm Damage - commercial investigation of properties and damage -Analysis
6/30/2017	Siding - installation deficiencies based on manufacturer's recommended procedures -Analysis
5/17/2017	Power of Persuasion presentation by Robert Cialdini by AMCON
5/11/2017	Geotechnical History for subdivision for slope stability and slope/retaining walls failure evaluation - Analysis
5/10/2017	MO Board of Engineers / Architects Newsletter 05-03-2017 by MO Dept of Commerce & Insurance - Certificate
5/1/2017	Contractor Neglect - repairs and damages based on Normal construction requirements -Analysis
5/1/2017	EPDM and TPO roof covering procedures - installation, damage assessment -Analysis
3/3/2017	Municipal codes and international Building code requirements for commercial drainage for adjacent property development -Analysis
2/13/2017	Railroad Ties - retaining wall failure detailed and researched for recommendations -Analysis
1/1/2017	Slope stability analysis program review and research - review and training of the GEOSTASE program and evaluation and comparison with STABL - Analysis
11/10/2016	MO Board of Engineers / Architects Newsletter 11-01-2016 by MO Dept of Commerce & Insurance - Certificate
8/21/2016	HVAC systems - improper installation and under sizing of system -Analysis
7/6/2016	Roofing and Flashing per manufacturer's guidelines -Analysis
5/15/2016	MO Board of Engineers / Architects Newsletter 5-12-2016 by MO Dept of Commerce & Insurance - Certificate
4/13/2016	TEDDS webinar Survey regarding Structural software by Citrix Systems -Analysis

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1/22/2016	Brick installation procedures to determine cause and origin of water intrusion -Analysis
1/19/2016	Mold and Health Effects by EMLab P&K - Certificate
1/10/2016	Log Home - improper installation and techniques based on customary log home guidelines -Analysis
12/15/2015	Understanding the Law of Architectural Copyright by Hall & Company - Certificate
11/6/2015	MO Board of Engineers / Architects Newsletter 11-06-2015 by MO Dept of Commerce & Insurance - Certificate
10/15/2015	Deck slope installation - research and identify failures of structure per building codes -Analysis
8/19/2015	Reviewing Results and Generating Reports in Tekla Structural Designer by Tekla - Certificate
8/12/2015	Wind and seismic Wizards of Tekla Structural Designer by Tekla - Certificate
5/25/2015	Construction Materials Shrinkage - evaluation and research of materials and their moisture equilibrium -Analysis
5/5/2015	MO Board of Engineers / Architects Newsletter 5-02-2015 by MO Dept of Commerce & Insurance - Certificate
2/23/2015	Roof and Structure - diagnosis of improper roof renovations per city code and t -Analysis effects on a structure -Analysis
2/12/2015	The Duty to Warn: The Study of Two Claim Cases Against Design Professionals by Hall & Company - Certificate
1/15/2015	ECP earth Contact Products Facility in Olathe KS with Gordon Energy & Drainage - Tour
11/4/2014	MO Board of Engineers / Architects Newsletter 11-04-2014 by MO Dept of Commerce & Insurance - Certificate
5/19/2014	FEA Design review and analysis for manlift for Wolfe Creek Nuclear Power Plant (Proprietary Systems) -Analysis
6/4/2014	MO Board of Engineers / Architects Newsletter 6-04-2014 by MO Dept of Commerce & Insurance - Certificate
5/19/2014	Finite Element Analysis Design review and analysis for manlift for Wolfe Creek Nuclear Power Plant (Proprietary Systems) -Analysis
1/10/2014	Roof Coverings, Stucco Installation, Mold Sampling & Building Condition Assessments - Certificate
12/20/2013	Water Runoff and Grade Drainage - research for liability by city contractors and construction and rerouting of water. Analysis and review of the impact on shallow foundations and small to large, short to long retaining wall structures. Combined concrete and MSE Walls -Analysis
12/4/2013	Retaining Wall Design Made Easy, CSC Inc., in TEDDS - Certificate
11/26/2013	MO Board of Engineers / Architects Newsletter 11-26-2013 by MO Dept of Commerce & Insurance - Certificate
11/10/2013	Building Envelope Technology Symposium - Parapet Design, Issues and Repair by RCI inc -Analysis
10/3/2013	Engineering Structural Calculation Finite Element Analysis Design, Computer Software Instructional Course - Certificate
8/21/2013	New Safe Drinking Water Act Requirements by International Code Council -Analysis
8/16/2013	Analysis of structural integrity: Floor Heave and settlement from 1000+ gallons water damage - Analysis

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8/6/2013	MO Board for Architects, Prof Engineers, Prof Land Surveyors and Landscape Architects Meeting
8/2/2013	Engineering Structural Calculation Finite Element Analysis Design, Software Instructional Course - soils, foundations, retaining wall structures and building systems and elements - Certificate
6/15/2013	Analysis of the Expansion of subsoil and the effects on foundations and retaining wall structures - Analysis
6/1/2013	Radon Testing Course by Air-Check - Certificate
5/21/2013	MO Board of Engineers / Architects Newsletter 5-21-2013 by MO Dept of Commerce & Insurance - Certificate
5/16/2013	Flexible Metal Deck Roof Diaphragms, PDH Online - PDH Center - Certificate
1/16/2013	Strategies for Mold Investigations and Sampling, EMLab P&K - Certificate
1/15/2013	Structural Connector Design and Specification Design and Workshop by CSC Inc., in TEDDS - Certificate
6/15/2012	Concrete Washout Design and Specifications -Analysis
12/18/2012	Advanced Calculation Writing by CSC Inc., in TEDDS - Certificate
12/13/2012	CFS Shear Wall Design Examples and Solutions by Structures and Codes Institute - Certificate
12/11/2012	Wind Loads on PV Cell Arrays by Structures and Code Institute - Certificate
12/4/2012	Retaining Wall Design by CSC Inc., in TEDDS - Certificate
11/15/2012	Analysis of extent of Damage to highway bridge from Impact (Botts Road Bridge) -Analysis
11/1/2012	MO Board of Engineers / Architects Newsletter 11-1-2012 by MO Dept of Commerce & Insurance - Certificate
10/1/2012	Analysis of Commercial Tire explosion and cause of failure -Analysis
9/27/2012	International Residential Code (IRC) 2012: Design Topics - Certificate
9/14/2012	Stress analysis of soil shrinkage and hydrostatic pressure on stone retaining walls from concrete and MSE walls along roadways and parking lots to limestone rockery walls - Certificate
6/1/2012	Significant Changes to the International Building Code 2012 Edition - Certificate
5/1/2012	MO Board of Engineers / Architects Newsletter 5-1-2012 by MO Dept of Commerce & Insurance - Certificate
3/1/2012	Formula for Success - Effective Sales Development - Certificate
2/27/2012	Determine improper construction of structure based on prior reports which encompass investigations of soil composition. Analysis
1/1/2012	Attitude is Everything - Effective Sales Development - Certificate
1/1/2012	Transactional Analysis and President's Club Certification - Effective Sales Development, Business Dev. - Certificate
7/10/2011	Stucco Evaluation Research - Improper installation of Stucco and Trim causing water leaks and Mold - Analysis
12/20/2011	2000 IBC code review, consultation and guidance for industrial equipment, platforms, and walkways with hand guards including mezzanines - Certificate

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10/1/2011	Guide to Code Compliance – Fire Door Systems by Mays Maune Mcward - Certificate
10/1/2011	Under covering Budget- Effective Sales Development - Certificate
9/1/2011	MO Board of Engineers / Architects Newsletter 9-1-2011 by MO Dept of Commerce & Insurance - Certificate
9/1/2011	Questioning Strategies - Effective Sales Development - Certificate
8/1/2011	Bonding and Rapport, Communication, Up Front Contracts, Management Issues, Using Product Knowledge Effectively, President's Club Certification - Effective Sales Development - Certificate
8/1/2011	Communication with Your People- Effective Sales Development - Certificate
8/1/2011	Up Front Contracts- Effective Sales Development - Certificate
7/1/2011	Focus and Narrow Efforts- Effective Sales Development - Certificate
7/1/2011	Keeping Your Prospects Comfortable- Effective Sales Development - Certificate
7/1/2011	Management Issues- Effective Sales Development - Certificate
7/1/2011	Understanding Your People- Effective Sales Development - Certificate
6/1/2011	Stealth Selling- Effective Sales Development - Certificate
6/1/2011	Using Product Knowledge Effectively - Effective Sales Development - Certificate
3/11/2011	MO Board of Engineers / Architects Newsletter 3-1-2011 by MO Dept of Commerce & Insurance - Certificate
10/28/2010	Critical analysis of faulty inspections by home inspectors and engineers - research guidelines and appropriate construction practices -Analysis
7/1/2010	MO Board of Engineers / Architects Newsletter 7-1-2010 by MO Dept of Commerce & Insurance - Certificate
4/28/2010	Evaluation of partial structural failure due to modifications of MSE block retaining wall -Analysis
3/12/2010	Roofing evaluation research of Stone Coated Commercial Roofing Panels - manufacturer's installation guidelines -Analysis
12/1/2009	MO Board of Engineers / Architects Newsletter 12-1-2009 by MO Dept of Commerce & Insurance - Certificate
7/7/2009	MO Board of Engineers / Architects Newsletter 7-7-2009 by MO Dept of Commerce & Insurance - Certificate
3/1/2009	Ram Jack Foundation Solutions, Design and Analysis Workshop - Certificate
10/21/2008	ASTM Environmental Site Assessments for Commercial Real Estate Phase I - Certificate
10/23/2008	ASTM Environmental Site Assessments for Commercial Real Estate Phase II - Certificate
10/5/2008	MO Board of Engineers / Architects Newsletter 10-1-2008 by MO Dept of Commerce & Insurance - Certificate
12/1/2007	Legal Issues for Professional Engineers - Certificate
3/1/2008	MO Board of Engineers / Architects Newsletter 3-1-2008 by MO Dept of Commerce & Insurance - Certificate

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7/1/2007	MO Board of Engineers / Architects Newsletter 7-1-2007 by MO Dept of Commerce & Insurance - Certificate
6/1/2007	Earthquake Mitigation and Design Course Completion by Red Vector - Certificate
6/1/2007	Earthquakes, The Basics Course Completion by Red Vector - Certificate
6/1/2007	Selection of Seismic Design Methods Course Completion by Red Vector - Certificate
5/1/2007	Basic Wind Loads I, ASCE 7-05 Revealed Course Completion by Red Vector - Certificate
5/1/2007	Basic Wind Loads II, The Law and Implementation Course Completion by Red Vector - Certificate
5/1/2007	Wood Design, Design Loads 1 – Loads & Deflection Criteria Course Completion by Red Vector - Certificate
5/1/2007	Wood Design, Design Loads 2 – Lateral & Wind Forces Course Completion by Red Vector - Certificate
5/1/2007	Wood Design, Design Loads 3 – Seismic Forces Course Completion by Red Vector - Certificate
10/9/2006	International Code Council; 2006 IBC Significant Changes - Certificate
9/1/2006	MO Board of Engineers / Architects Newsletter 9-1-2006 by MO Dept of Commerce & Insurance - Certificate
1/6/2006	Stucco Evaluation Research - Improper installation of Stucco and Trim causing water leaks -Analysis
1/1/2006	International Code Council - ICC - Membership
12/2/2005	Legal Issues for Missouri Professional Engineers by Half Moon - Certificate
9/14/2005	Environmental Microbiology Laboratory, Inc.; Mold, Allergens, Sampling, and Data Interpretation - Certificate
9/21/2004	Van Gilder Insurance Corporation; The Risky Business of Design - Certificate
5/15/2004	Failure of Structure - Evaluation of Connections and lack of Nails during construction -Analysis
4/10/2004	Building Pathology, Foundations Course Completion by Red Vector - Certificate
4/11/2004	Building Pathology, Freeze-Thaw Cycling Course Completion by Red Vector - Certificate
3/13/2004	Building Pathology, Columns and Walls Course Completion by Red Vector - Certificate
2/21/2002	Professional Development Options; Marketing Set A (Certificate Of Completion) - Certificate
3/10/2002	Professional Development Options; Marketing Set B (Certificate Of Completion) - Certificate
3/14/2002	The University of Kansas Continuing Education; 47th Annual Structural Engineering Conference - Certificate
8/8/2001	Liability IQ for Architects and Engineers by Professional Liability Education Program - Certificate
12/14/2000	2000 IRC Provisions an Overview and Perspective by ICBO - Certificate
2/10/1997	Hazardous Waste Operations Refresher by N.J.K. Associates, Inc.; OSHA 29 CFR 1910.120 - Certificate
4/2/1996	The University of Kansas Continuing Education; 41st Annual Structural Engineering Conference - Certificate

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1/12/1996	Haag Engineering Co.; Composition Roofs Damage Assessment - Diploma
1/10/1996	Haag Engineering Co.; Wood Roofs Damage and Repair - Diploma
8/1/1995	Air and Waste Management Association - Membership
8/1/1994	American Concrete Institute; ACI Field Testing Technician Grade I - Certificate
5/1/1994	University of Missouri Kansas City / University of Missouri Columbia (dual) Bachelor of Science in Civil Engineering - Diploma
4/15/1994	Maple Woods Community College Hazwoper Refresher Training - Course
3/8/1994	An Introduction to Asphalt Recycling and Reclaiming by University of Kansas - Certificate
11/1/1992	Hazardous Waste Operations N.J.K. Associates, Inc.; OSHA 29 CFR 1910.120 - Course
6/1/1992	Kansas City Section American Society of Professional Engineers -ASCEKC- Membership
6/1/1992	American Society of Professional Engineers -ASCE- Membership
6/1/1992	Structural Engineering Institute - SEI - Membership
5/28/1992	Troxler Radiation Safety Officer, Troxler Electronic Laboratories - Course
6/20/1991	Heartland Chapter Estimating Seminar by American Society of Professional Estimators - Course
4/21/1991	American Society of Professional Estimators Program by University of Missouri - Course
4/16/1991	Hydraulic Conductivity and Triaxial Shear Testing by Brianard Kilman - Certificate
8/5/1989	ACI Concrete Field-Testing Technician-Grade 1 by American Concrete Institute -Certificate
1/20/1989	Alpha-Omega Geotech, Inc.; Radiological Safety and Troxler Nuclear Gauge Use Training - Course
4/23/1987	United States Army Reserves; Honorable Discharge at Specialist Four - Certificate
8/15/1986	Automobile Physical Damage Estimating by Southern Farm Bureau Tech - Diploma
12/7/1983	Material Storage and Handling Specialist Training Course by United States Army Reserves - Diploma
8/1/1981	Department of the Army Basic Training by United States Army Reserves -Certificate