



Curriculum Vitae

CHARLES E. GASSER, PE, SE

EDUCATION:

Bachelor of Science in Architectural Engineering
University of Wyoming, 1994

PROFESSIONAL SUMMARY:

Mr. Gasser is the director and lead forensic consultant for American Structurepoint's Illinois office. He has more than 25 years of experience in structural engineering design and forensic investigations. During his career he has applied his expertise in multiple areas of structural engineering, including moveable bridge and historic building rehabilitation, new building design, construction administration, and forensic investigations.

His building structural experience includes commercial, industrial, educational, municipal, congregational, and residential design, as well as inspection of steel, concrete, masonry, and wood structures.

His forensic experience has included structural condition assessments after explosions, fires, tornadoes, and other disasters. Mr. Gasser has also performed numerous structural-collapse cause investigations, determinations of effective remedial action, structural component failures, and strength deterioration investigations.

Expert witness experience includes cases involving material performance failures, and failures of structural elements.

PROFESSIONAL COMPETENCIES:

Forensic engineering consultant involved in the following types of projects.

- Water damage and microbial growth investigations
- Storm damage (hail, wind) investigations, including residential and commercial roofing systems
- Structural damage investigations – fire, water, storm, vehicular impact, other
- Roof and building condition assessments
- Roof repair and replacement design, including construction administration and construction observation services
- Insurance appraisals and arbitrations in the role of consultant, appraiser, and umpire

LICENSES, REGISTRATIONS & CERTIFICATIONS:

Licensed Professional Engineer (PE) – Indiana, Wisconsin

Licensed Structural Engineer (SE) – Illinois

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EMPLOYMENT HISTORY:

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| AMERICAN STRUCTUREPOINT, INC. <i>Consulting Engineers/Architects, Indianapolis, Indiana</i> <i>Current Position: Illinois Office Director</i> | <i>2011 to Present</i> |
| LARSON ENGINEERING OF ILLINOIS INC. <i>Consulting Structural Engineering Firm, Naperville, IL</i> <i>Project Engineer/Senior Project Manager</i> | <i>1996-2011</i> |
| STRUCTURAL DESIGN ASSOCIATES <i>Consulting Structural Engineering Firm, Albuquerque, NM</i> <i>Staff Engineer</i> | <i>1994-1996</i> |

REPRESENTATIVE PROJECTS:

Tornado Damage Inspection, Cassani Residence, Diamond, Illinois

Mr. Gasser inspected the residence to determine the extent of structural damage sustained by an EF2 tornado. A report was prepared outlining the extent of the structural damage and the necessary remedial repairs.

Tornado Damage Inspection, Makiney Residence, Washington, Illinois

Mr. Gasser inspected the residence to determine the extent of structural damage sustained by an EF4 tornado. A report was prepared outlining the extent of the structural damage and the necessary remedial repairs.

Tree Damage Inspection, Wagner Residence, St. John, Indiana

Mr. Gasser inspected structural damage sustained by the residence from the impact of a large tree. A report was prepared stating the extent of damage and outlining necessary remedial repairs.

Structural/Environmental Inspection, Thompson Residence, Lisle, Illinois

Mr. Gasser inspected the residence to determine the cause and origin of several environmental and structural issues including: unusual powder buildup in ductwork, sewer fly infestation, reported mold in attic and potential settlement of the foundation. Mr. Gasser investigated each item and provided a report indicating the causes of the issues and suggested remedial action.

Wind and Hail Damage Inspection, Higgins Residence, Alton, Illinois

Mr. Gasser inspected the residence for hail and wind damage. A report was prepared to document and quantify all storm-related damage to the property, including recommendations regarding the extent of repairs required.

Wind and Hail Damage Inspection, Inserra Residence, Plainfield, Illinois

Mr. Gasser inspected the residence for hail and wind damage. A report was prepared to document and quantify all storm-related damage to the property, including recommendations regarding the extent of repairs required.

Fire Damage Inspection, For Bare Feet Inc., Helmsburg, Indiana

Mr. Gasser inspected the building complex to determine extent of structural damage from a large fire. He provided a report documenting and quantifying the fire damage to the structure. The report also included recommendations for shoring and remedial repairs.

Wind and Hail Damage Inspection, House of Prayer Church, Chicago, Illinois

Mr. Gasser inspected multiple buildings on the church campus for hail and wind damage. He provided a report documenting and quantifying all storm-related damage to the property, including recommendations regarding the extent of repairs required.

Fire Damage Inspection, Menotti Residence, Arlington Heights, Illinois

Mr. Gasser inspected the residence after a large fire to determine the stability of the remaining structure and determine which portions of the residence were salvageable. He provided a report summarizing all observed structural damage and included recommendations for shoring and remedial repairs.

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Bowstring Truss Partial Collapse Inspection and Repair, Ottawa, Illinois

Mr. Gasser inspected the reported partial collapse of a bowstring truss in a local grocery store. He provided a report summarizing the cause of the collapse and suggested remedial repairs. He was retained by the client to design the repairs and provide periodic inspections during implementation of the repairs.

Roof Inspection, Hulseberg Residence, Galena, Illinois

Mr. Gasser inspected organic shingles for hail and wind damage on a Civil War-era residence. He provided a report documenting the deficiencies common to organic shingles and the differences between hail damage and the deleterious conditions present in the shingles.

Roof Inspections, Urena Residence, Galesburg, Illinois

Mr. Gasser inspected the main residence and four additional outbuildings on the property for hail- and wind-related damage. Two manufacturing defects were found in the shingles. Mr. Gasser provided a report documenting and quantifying all storm-related damage to the property, as well as explaining the manufacturing defect present in the shingles.

CONTINUING EDUCATION & TRAINING:

- 2020 *Investigative Group Annual Meeting – ACEC*
- 2020 *Moisture Control & More with Spray Foam Insulation – Icynene, Inc.*
- 2019 *Annual Supervisor Training on Sexual Harassment Prevention – ACEC*
- 2018 *Roofing Penetrations & Waterproofing Design Challenges – RoofTop Solutions, LLC / GAF*
- 2018 *Requirements for Roof Coverings: Asphalt Shingles – Underlayment & Drip Edge – Douglas Brown, PE, RRC, American Structurepoint, Inc.*
- 2018 *Hurricane Harvey: Texas FEMA Review – Jess Pounds, PE, American Structurepoint, Inc.*
- 2018 *Residential Foundation Walls: Cracking & Reuse – Luke Showalter, PE, Charlie Prigge, PE, American Structurepoint, Inc.*
- 2018 *Property Condition Assessment (PCA) Overview – Dan Weekes, AIA, NCARB, BECxP, CSI, American Structurepoint, Inc.*
- 2018 *Vacation Resorts: Assessments & Repair Design – Jason Williams, PE, MSCE, CDT*
- 2018 *Single Ply (R)evolution – Jim Tierney, Doug Ruffner, Architectural Construction Products (ACP)*
- 2017 *Fire Investigation & Red Flags for Arson - W. Dale Nicholson, PE, CFI, CFEI, American Structurepoint, Inc.*
- 2017 *Investigative Group Annual Meeting - Douglas E. Brown, PE, RRC, American Structurepoint, Inc.*
- 2016 *Case Study: Glass Window Damage Investigation / Seismographs - Luke Johnson, PE, American Structurepoint, Inc.*
- 2016 *Mine Subsidence - Tom P. Leahy, PE, SE, American Structurepoint, Inc.*
- 2016 *Property Condition Assessments - Mike M. Jones, RA, American Structurepoint, Inc.*
- 2016 *Façade Assessments & Water Testing – Beth A. Pedota, EI, American Structurepoint, Inc.*
- 2016 *Residential Foundations & Expansive Soils - Will J. Parks, PE, American Structurepoint, Inc.*
- 2016 *Parking Structure Assessments – Stephen A. Manner, American Structurepoint, Inc.*
- 2016 *Blue Beam/One Note - Jess M. Pounds, PE, American Structurepoint, Inc.*
- 2016 *Structural Inspection of Chimneys - Charles E. Gasser, PE, SE, American Structurepoint, Inc.*
- 2016 *Parking Structure Assessment Standards - Annemarie Riecken, EI, American Structurepoint, Inc.*
- 2016 *Inspecting Structural Failures - Charles E. Gasser, PE, SE, American Structurepoint, Inc.*
- 2015 *Self Directed Learning Study, DES310 Connection - Michelle Kam-Biron, Director of Education AWC, American Wood Council*
- 2015 *Tornadoes and Structural Inspections of Tornado Damaged Structures - Charles Gasser, PE, SE, American Structurepoint, Inc.*
- 2015 *Case Study: Explosion Damage - Luke A. Showalter, PE, American Structurepoint, Inc.*

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- 2015 *Wind and Water Damage: Lessons Learned from Katrina* - Bob Wieber, PE, American Structurepoint, Inc.
- 2015 *Producing Defensible Engineering Reports* - Thomas P. Leahy, SE, American Structurepoint, Inc.
- 2015 *Common (and not so common) Commercial Roof Systems* - Michael M. Jones, RA, American Structurepoint, Inc.
- 2015 *Load Transfer Through Shear Walls* - Terry Malone, PE, SE, Woodworks, SE Solutions, SE University
- 2015 *ISEA 2015 Spring Conference* – various, ISEA
- 2015 *Structural Building Condition Surveys: Looking for Trouble*, ASCE
- 2015 *Structural Engineering of World's Tallest Building Burj Khalifa (Dubai)* – various, PDHEngineer.com
- 2015 *Seismic Design - Evaluation and Retrofit of Existing Buildings* - Edward Brunet, PDHEngineer.com
- 2014 *Designing for ASCE 7 Wind Loads - Main Wind Force Resisting System* - Don Scot, SE of PCS Structural Solutions, SE Solutions, SE University
- 2014 *Structural Forensic Engineering* - Vincent F. Fratinardo, Gregory H. Pestine, Carl J. Schoenberger, Halfmoon Education
- 2014 *Designing for ASCE 7 Wind Loads - Components & Cladding* - Don Scott, SE of PCS Structural Solutions, SE Solutions, SE University
- 2014 *Professional Engineering Ethics* - Richard McKissock, www.mckissock.com
- 2012 *Project Management Bootcamp* - Alan Bollinger, PSMJ Resources, Inc.
- 2012 *Inspection of Residential Roof Systems* – HAAG
- 2012 *Inspection of Commercial Roof Systems* – HAAG

PROFESSIONAL ASSOCIATIONS:

American Institute of Steel Construction, *Member*

American Society of Civil Engineers, *Member*

PUBLICATIONS AND PRESENTATIONS:

- 2016 Understanding Structural Damage, Using Engineers to Control Cost on Large Losses – Central Claim Executives Association Fall Meeting
- 2016: Structural Inspection of Chimneys. Internal Continuing Education Course. American Structurepoint, Inc.
- 2015 Tornadoes and Structural Inspections of Tornado Damaged Structures. Internal Continuing Education Course. American Structurepoint, Inc.

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Forensic Engineering Specialties

Building Pathology

The building pathologist relies on an in-depth knowledge of building design, construction, use, and changes as well as assessing the environment of use and the materials and how these interrelate to systematically identify, investigate, and diagnose defects in a building. Past work includes design and specification of repairs.

Structural Engineering (Analysis and Design)

Review appropriate documents including project plans and specifications as it relates to the building structure for purposes of failure analysis and extent of resulting damages. In addition, being a licensed professional engineer, replacement designs are provided upon request. Examples of past work includes failure analysis of collapsed structures (concrete, steel, wood, masonry) and various building components (windows, doors, glass, piping, roofing, exterior and interior cladding) as well as damage assessment of building structures after a fire.

Origin & Cause

Determine the source and responsible party or element related to water entry into a building whether it be through the building envelope or caused within the building interior. Examples of past work include failure of roofing and wall cladding causing moisture entry, humidity and condensation related losses, and groundwater entry.

Building Fenestration/Building Envelope

The building envelope is a building's first line of defense to moisture entry. Identifying the type of system (single versus multiple barrier) and how the various adjoining materials' water and air barriers connect is key to effective moisture management. Examples of past work include exterior cladding specification and installation of roofing materials.

Inspection and Evaluation of Roofing Systems

This includes steep and low slopes roofs as well as various types of roofing materials including both common and unique roofing applications. Past work involved offering opinions and repairs related to installation deficiencies and storm-related damages including for hail and wind.

Qualifications & Training

- IIBEC Conference and Tradeshow, Houston, TX, 2023
- IIBEC/AEI Building Enclosure Symposium, Milwaukee, WI, 2022
- IIBEC Conference and Tradeshow, Phoenix, AZ, 2021
- Expansion Joints: Types and Uses, IIBEC Webinar, November 2020
- Resilient Roofing, Meeting the ASCE 7-16 Standard, IIBEC Chicago Webinar, October 2020
- Electronic Leak Detection Testing, Standards, Science, and Practical Applications, IIBEC – Chicago, September 2020
- Composite Sub-Framing and How it Benefits Building Envelope Design, IIBEC – Chicago, August 2020
- Avoiding Ethical Pitfalls in Failure Investigations, ASCE #8108W2020, March 2019
Experience involving inspections of commercial, industrial, and residential structures
- Experience performing structural design and consulting in structural engineering

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Last Modified: 8/25/23

Mr. Gough has not been retained unless this Curriculum Vitae is accompanied by a signed letter of engagement.

- Shear Exhilaration, ICC Course No. 22134, APA, December 2019
- Decoding the Roofing-Related Code Requirements, Mid-Century Thin-Stone Veneers: Balancing Preservation and Public Safety, CAC-IIBEC, May 2019
- Wind Design for Low Slope Roofs Part II - FM Global Guidelines and Best Practice Considerations, RCI, May 2019
- RCI Convention and Trade Show, RCI, March 2019
- Roof Drainage Design, RCI, February 2019
- Wind Warranties vs. Wind Uplift Requirements for Roofing Systems, Managing Project Specific Details, CAC-RCI, November 2018
- Architectural Sheet Metal Flashing Design, RCI, April 2018
- After the Storm, Webinar, March 2018
- Roofing/Waterproofing Testing and Monitoring, Window Condensation Problem; Why Now?, ASCE 7-16: An Overview of Changes Pertaining to Roof Systems and Rooftop Equipment, The Proper Way to Specify an Air Barrier to Meet ASHRAE 90.1, IECC-2015, IGCC, and LEED v4.0, CAC-RCI, January 2018
- Roof Systems Thermal and Moisture Design, RCI, September 2017
- Cedar Grading and Inspection Seminar, Topics in Liability for Roofing Contractors and Consultants, RCI Wisconsin Chapter, August 2017
- Engineering Investigations of Hurricane Damage: Wind versus Water, American Society of Civil Engineers, February 2016
- Mold/Indoor Air Quality/Industrial Hygiene Workshop, EMSL Analytical, Inc., October 2015
- Professional Building Consulting, RCI, September 2015
- HAAG Engineering – Residential and Commercial Roofing Class
- Engineering Ethics and Professional Responsibility, University of Wisconsin – Madison, June 2013
- CAC RCI Seminar – Roofing Adhesives, Roof Flashing, Metal Panel Wall Systems and Clay Roof Seminars
- Indoor Air Sciences – Certified Indoor Environmentalist and Indoor Air Quality Course
- Water Entry Prevention and Moisture Control in Buildings--Roofing Systems, Exterior Walls, Plaza Decks, Below-Grade Waterproofing, University of Wisconsin-Madison, November 2011

Education

Bachelors in Architectural Engineering/Structural System Design
Milwaukee School of Engineering, Milwaukee, WI, 2000

Masters in Structural Engineering
Milwaukee School of Engineering, Milwaukee, WI, 2004

Licenses & Certifications

PE - Professional Engineer

Licensed by the State of Illinois – Number 062.073125

Licensed by the State of Wisconsin – Number 40764-6

Licensed in the State of Missouri – Number 2021002499

Licensed in the State of Iowa – Number P26527

Licensed in the State of Minnesota – Number 59029

Applied Microbial Remediation Technician (AMRT), Certified by the Institute of Inspection Cleaning and Restoration Certification (IICRC), April 2022

Applied Structural Drying Technician (ASD), Certified by IICRC, August 2022

HCRI-R - Certified Roof Inspector, Certified by HAAG Engineering (2010-2014)

HCRI-C - Certified Roof Inspector, Certified by HAAG Engineering (2013-2014)

RRC – Registered Roof Consultant, International Institute of Building Enclosure Consultants (IIBEC) #0883, March 2020

WRT – Water Damage Restoration Technician, Certified by IICRC, March 2022

Employment History

Forensic Engineer
Nederveld, Inc.
2009 – Present
Perform forensic analysis relating to building pathology issues, fire loss damage, storm damage (wind, snow, hail, seismic) and water loss events.

Structural Designer
The Structural Shop, Schiller Park, IL
2004 - 2009
Design structures for institutional, residential, commercial, and industrial buildings including steel, timber, masonry, concrete, aluminum, and light gauge metal
Accomplishments:
- Holocaust Memorial Foundation Museum, IL
- Six Flags Tony Hawk Video Monitor Walls, TX and CA

Structural Designer
Paul-Koehler Structural Engineers, Scottsdale, AZ
2003 - 2004
Designed structure including composite steel and lateral analysis design
Accomplishments:
- Phoenix Convention Center

Structural Designer
Arnold & O'Sheridan, Brookfield, WI
2000 - 2003
Designed and drafted structure including steel, timber, masonry, concrete, light gauge metal and details and field verified existing conditions

AutoCAD Engineer Intern
Klug & Smith, Milwaukee, WI
1999 – 2000
Drafted architectural and structural components including shop drawings, erection plans, and details and field verified existing condition

Professional Affiliations

Affiliate Member: International Institute of Building Enclosure Consultants (IIBEC – Formerly RCI, Inc.)
Member: Chicago Area Chapter of International Institute of Building Enclosure Consultants (CAC-IIBEC – Formerly CAC-RCI)
Member and Director: Wisconsin Chapter of International of Building Enclosure Consultants (IIBEC-WI)

Expert Witness Experience

Deposition
August 2023
Holiday Village Laundromat, Inc. vs. Auto-Owners Insurance Company
Expert Witness for Auto-Owners Insurance Company on behalf of Nash, Spindler, Grimstad & McCracken, LLP
Kenosha County Circuit Court No. 22-CV-519

January 2020
1000 Rand Road Condominium Association vs Secura Insurance
Expert Witness for Secura Insurance
United States District Court - Civil Action No. 1:19-cv-02769

February 2019
Richard Stobart vs Country Mutual Insurance Company
Expert Witness for Country Mutual Insurance Company on behalf of Condon & Cook LLC
Lake County Circuit Court No. 18L276

September 2018
James J Tyrcha vs Country Mutual Insurance Company
Expert Witness for Country Mutual Insurance Company on behalf of Condon & Cook LLC
DuPage County Circuit Court No. 17L610

September 2017
Ravinia Vogue Cleaners vs Travelers Casualty Insurance Company of America
Expert Witness for Travelers Casualty Insurance Company of America on behalf of Foran
Glennon Palandech Ponzi & Rudloff PC
United States District Court No. 16C10311

May 2016
Inderjit Viridi vs Allstate Insurance Company
Expert Witness for Allstate Insurance Company on behalf of Condon & Cook LLC
Cook County Circuit Court Case # 14 L 013295

Arbitration

July 2015
Dabney vs State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 29934AMN

November 2012
Chandra vs State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 22393AMN

August 2012
Potempa vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 22136AMN

August 2012
Carpenter vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 21444AMN

August 2012
Celmer vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 21646AMN

June 2012
Phillips vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 21282AMN

May 2012
Cooper vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company of behalf of Sudekum Cassidy & Shulruff
Arbitration Number 21355AMN

July 2011
Echito vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 19611AMN

June 2011
D'Ambrosia vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 19019AMN

June 2011
Georgantonis vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 19508AMN

May 2011
Rothenberger vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 18357AMN

March 2011
Axelrood vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 18462AMN

December 2010
Magarian vs State Farm Insurance Company
Expert Witness for State Farm Insurance Company on behalf of Sudekum Cassidy & Shulruff
Arbitration Number 18018AMN

KurPen INC.

Insurance Appraisal Services

890 Fox Ct Chanhassen, MN 55317

952-456-2918 / kurtehlrs@yahoo.com

Professional Summary:

- Completed over 1000 appraisals as an appraiser or an umpire.
- Inspected over 3000 properties for contractors and insurance companies.
- Extensive Xactimate training and up to date on current pricing for all U.S. regions.

Education:

- University of Minnesota
 - Major: Business
- Property and Casualty License
- Kaplan Insurance Education

Experience:

- KurPen INC- Appraisal and Umpire Services
- Contractor Insurance Support (CIS)
- Pacific Specialty Insurance Company- PALO Alto California
- IMS Claims Services- Bradenton Florida
- Supervisor- Cody Lewis 952-250-1540

Skills:

- Xactimate Estimate Writing
- Property Inspections
- Appraisal and Umpire Services.