

Luke Showalter, PE | Senior Forensic Structural Engineer

4700 Northwest Parkway, Suite 230, Hilliard, Ohio 43026

380.222.9935 (m)

luke.showalter@efiglobal.com

Professional Summary:

Mr. Luke Showalter is a licensed Professional Engineer in multiple jurisdictions throughout the Great Lakes Region.

Mr. Showalter began his career in 2004 and is experienced in designing, inspecting, evaluating, and investigating various types of building structural elements. He has specialized experience in the evaluation and repair recommendation for structures after a failure.

Mr. Showalter's expertise includes:

- Water damage and microbial growth investigations
- Storm damage (hail, wind) investigations, including residential and commercial
- 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 and appraiser
- Structural repair and replacement design, including construction administration and construction observation services
- Property condition assessments

Licenses and Certifications:

Professional Engineer (Additional states available upon application):

Ohio, E-76595

Kentucky, 28983

Pennsylvania, PE080820

West Virginia, 19962

Indiana, PE11300062

Michigan, 6201059752

National Engineering Registration, NCEES, 13-105-99

Project Experience:

The sample projects here outline a small sampling of the types of projects and losses Mr. Showalter regularly investigates. For further information or additional examples, please contact EFI Global.

Various Forensic Examinations, Great Lakes Region

Mr. Showalter has served as project manager and structural engineer on over 1300 insurance-related forensic structural engineering investigations on residential and commercial properties, including but not limited to: foundation failure, mold inspections, roofing inspections, framing evaluations, fire damage evaluations and repair recommendations, shear wall evaluations, and

moisture intrusion in the states of Ohio, Indiana, Michigan, Kentucky, Pennsylvania, and West Virginia.

Multi-Building Roof Damage Investigations, Great Lakes Region

Mr. Showalter has acted as Project Manager and Lead Structural Forensic Engineer for insurance-related roof damage investigations on over 35 multi-building properties throughout the Midwest region. This included the evaluation for hail and wind damage on low-slope and steep-slope roofing systems, including fiberglass and organic composition shingles, EPDM membrane roofing, modified bitumen roofing, built-up roofing, metal roofing, and slate.

Appraisal/Arbitration

Mr. Showalter performed the role of appraiser on multiple insurance appraisals related to storm damage claims on commercial and residential losses. Also provided engineering services and testimony on insurance arbitrations.

Expert Witness Testimony: Court Qualifications/Depositions/Testimony:

Mr. Showalter has performed the role of expert in one deposition and has provided engineering support in an additional ten civil litigations.

Professional Experience:

EFI Global, Senior Forensic Structural Engineer (current title), 2019 – Present
American Structurepoint, Inc., Project Manager/Forensic Structural Engineer, 2014 – 2019
Unified Investigations and Sciences, Forensic Structural Engineer, 2012 – 2014
Harris Group, Inc., Structural Engineer 2008 – 2012
Sacramento Municipal Utility District, Project Manager/Structural Engineer 2005 – 2008
Applied Technology, Inc., Staff Engineer I 2004 – 2005

Formal Education:

Bachelor of Science, Civil Engineering, The Ohio State University, 2004

Specialized Education/Training:

UT-Austin Forensics Engineering Conference – Multiple Presenters – 2024
UT-Austin Forensics Engineering Conference – Multiple Presenters – 2023
UT-Austin Forensics Engineering Conference – Multiple Presenters – 2022
Indiana Laws and Rules for Professional Engineers - John Huang, PE 2022
Foundation Damage and Repair: Science, Materials, and Techniques – Edward L. Fronapfel, HalfMoon Education 2021
Structural Design Loads under the ASCE 7 Standard – Robin M. Closs, HalfMoon Education 2021
Ohio Board Rules and Professional Ethics – John Huang, PE 2021

Preventing and Addressing Construction Defects and Failures - Collins Ofari-Amanfo, PE 2020

Residential Code of Ohio – Robert J. Schulz, HalfMoon Education 2018 and 2020

SEAO Yearly Conference: Kinked Connections: "What Are They & How to Deal with Them" -Cliff Schwinger, PE 2019

SEAO Yearly Conference: Retractable Stadium Roofs - Andrew Agosto, PE, SE 2019

SEAO Yearly Conference: The National Veterans Memorial and Museum - Rob Ford 2019

SEAO Yearly Conference: An Industry Update on Fiber Reinforcement for Concrete Design - Mike Mahoney, Peng 2019

SEAO Yearly Conference: Polished Concrete Slab Finishing - Chris Tull, PE 2019

SEAO Yearly Conference: "Risk Driven Defect Prevention" - Timothy Schap, AIA 2019

SEAO Yearly Conference: ASTM A913 Steel Wide Flange Shapes - Shane Vernon, PE 2019

SEAO Yearly Conference: Ground Improvement: Design Considerations - Mike Haschemeyer, PE 2019

SEAO Yearly Conference: Value Engineering Masonry - Scott Walkowicz, PE 2019

SEAO Yearly Conference: Mass Timber Construction: Products, Performance, and Design - Anthony Harvey, PE 2019

SEAO Yearly Conference: It's a Matter of Ethics - Bob Gavin 2019

Foundation Damage and Repair: Science, Materials, and Techniques – Joseph S. Cooke, HalfMoon Education 2018

Preventable Curtain Wall Failures – Kawneer Company 2018

Structural Forensic Engineering – online, HalfMoon Education 2018

SEAO Yearly Conference: Lessons Learned.... the Hard Way – Kirk Wolf, SEAO 2018

SEAO Yearly Conference: Study of Initial Cost of Construction for Multi-Residential Structures – Dr. Walt Schneider, SEAO 2018

SEAO Yearly Conference: Economical Design of Concrete Structures 2 – David Fanella, SEAO 2018

SEAO Yearly Conference: John A. Roebling and His Suspension Bridge on the Ohio River – Don Heinrich Tolzmann, SEAO 2018

SEAO Yearly Conference: HSS Truss Connections: The Ts Ks and Ys of it All – Brad Fletcher, SEAO 2018

SEAO Yearly Conference: Economical Design of Concrete Structures 1 – David Fanella, SEAO 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) 2018
Parking Structure Assessment Standards – Annemarie Riecken, EI, American Structurepoint, Inc. 2017
Inspecting Structural Failures – Charles E. Gasser, PE, SE, American Structurepoint, Inc. 2017
Fire Investigation & Red Flags for Arson – W. Dale Nicholson, PE, CFI, CFEI, American Structurepoint, Inc. 2017
Technical Writing Workshop – Dr. Mark Decker, HalfMoon 2017
ACI 562-16 - The Concrete Repair Code – Chuck Larosche, SEAoO 2017
Short Span Steel Bridges: Press Brake Tub Girders – Dr. Karl Barth, SEAoO 2017
Direct Design of Masonry Structures per TMS 403 – Jason Thompson, SEAoO 2017
Storm Shelters: From an Idea to a Mature Industry – Dr. Ernst Kiesling, SEAoO 2017
No One Wants to Blow the Whistle: When Must You? – Dr. Max Porter, SEAoO 2017
Making Buildings Move – Brian Hamill, SEAoO 2017
OBC Structural Overview – Shayne Manning, SEAoO 2017
Castings in Architecturally Exposed Structural Steel – Jennifer Anna Pazdon, SEAoO 2017
Design of Transfer Elements with Post-Tensioning Technologies – Lance Osborne, SEAoO 2017
Structural Insulated Panels: An Engineer's Perspective – Tom Moore, SEAoO 2017
Sell, Do, Win Business: A Research Deep Dive into Conducting Business Development – Ms. Holly Bolton, SEAoO 2017
National Veterans Memorial and Museum Project – Nigel Carter, ASCE, Central Ohio Section 2017
National Veterans Memorial and Museum Project - Construction Site Tour – Nigel Carter, ASCE, Central Ohio Section 2017

Courses Instructed/Guest Lecturer:

Forensic Structural Engineering – An Overview
Residential Roof Hail and Wind Damage
Residential Foundations
Technology in the Investigative Department
Case Study: Explosion Damage Investigation