FORENSIC ENGINEERING
McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project’s specific needs with technical excellence and creative innovation.

MALCOLM MCLAREN, PE
Founder + Forensic Lead
MMcLren@mgmclaren.com

About Us

Core Technical Divisions

- STRUCTURAL
- CIVIL + SITE
- MARINE + COASTAL
- BRIDGE, HIGHWAY + RAIL
- ENTERTAINMENT
- GEOTECHNICAL
- FACADE + BUILDING ENVELOPE
- CONSTRUCTION ENGINEERING
- FORENSICS
- SURVEY + MAPPING
Founded on our diverse multi-discipline technical engineering capabilities, McLaren’s forensic experts are renowned for investigating, analyzing, simulating, and presenting evidence in some of the nation’s most well-known collapses, failures, accidents, disputes, and deficiencies.

Headed by CEO and founder Malcolm McLaren, PE, our forensics division is focused on investigating the root cause of an incident, analyzing who/what is responsible, and identifying what can be done to mitigate reoccurrence.

In addition to our standard forensic investigation services, our practice offers full litigation support. Our services include detailed analyses using in-house high-tech capabilities, narrative reports, demonstrative evidence, and expert witness testimony.

FORENSIC DISCIPLINES
- STRUCTURAL
- CIVIL
- FACADE
- CONSTRUCTION ENGINEERING
- MARINE
- BRIDGE HIGHWAY
- ENTERTAINMENT
- GEOTECHNICAL
- GEOMATICS

www.mgmclaren.com
Conducting investigations to determine the cause and origin of structural collapses, failures, damages, and defects, our expert forensic engineers are experienced in all structure types. From residential, commercial, institutional, and industrial structures to bridges, railways, and infrastructure, we prepare clear, concise, cohesive, and accurate reports.
I-40 BRIDGE COLLAPSE - WEBBERS FALLS, OK

BOARDWALK HALL SUPER GRID 2 COLLAPSE, NJ

BUILDING COLLAPSE - YONKERS, NY

FACADE + WINDOW INVESTIGATION

SITE COLLAPSES

QUEEN ISABELLA CAUSEWAY, TX
With a unique understanding of roads, sidewalks, underground utilities, foundations, and stormwater systems, our forensic engineers provide clients with top-notch civil analysis. From slip and falls to traffic accidents, McLaren can provide detailed narrative reports, code compliance analysis, easy to understand demonstrative exhibits, and export testimony.
TRAFFIC STUDIES

SIDEWALK + WALKWAY ANALYSIS

UNDERGROUND UTILITIES

DRAINAGE + STORMWATER INVESTIGATION

CODE COMPLIANCE

FOUNDATION ANALYSIS + BUILDING SETTLEMENT
With a robust reputation in the maritime industry, McLaren’s distinctive forensic offerings include a team of PE divers, a fleet of inspection boats, and marine engineers that can provide responsive investigation services. With the latest equipment and inspection capabilities, we provide innovative analysis whether it be a maritime forensic consultation or complex litigation.
From crane collapses to connection failures, site accidents to materials failure, our team can help determine the root cause of any construction accident. With a team of specialized construction engineers who understand the intricacies of large infrastructure projects to buildings and specialty structures, providing unsurpassed forensic support.
Our geotechnical engineers specialize in analyzing the behavior of earthen materials and how they interact with man-made elements such as foundations, flatwork, and pipelines. Forensic geotechnical investigations involve the analysis of a claim through site condition observation, inspections, analysis, and testing. Geotechnical investigations serve to provide a scientific root-cause analysis to support litigation claims.
McLaren’s Geomatics team offers state-of-the-art technology that ranges from traditional land surveys to high tech 3D scanning (LiDAR), aerial drone surveys, geohazard surveys, hydrographic surveys, and multibeam mapping. Whether by land, water or air, our team can examine any failure, accident scene or collapse with the most advanced capabilities to find the cause of an incident.
McLaren’s technical expertise, cutting-edge capabilities and trustworthy reputation in the industry has enabled us to provide unparalleled litigation support services. Our in-house expert engineers range in technical disciplines, allowing us to provide high quality investigation, analysis, litigation support, reports, demonstrative evidence and expert testimony. Using cutting edge investigative capabilities and graphic modeling applications, McLaren finds the cause of an incident, analyzes who/what is responsible and identifies what can be done to mitigate reoccurrence.
With over 40 years of design, engineering and inspection experience for structural, bridge/highway/rail, civil, geotechnical, marine and forensic projects nationwide, Mal McLaren’s experience and reputation are unparalleled. He leads McLaren’s team of forensic experts and specializes in forensic investigation, analysis and expert testimony.

100+ EXPERT WITNESS + INVESTIGATION PROJECTS

- Investigation of the I-40 Bridge Collapse; Webbers Falls, OK
- Terminal Ventures Bulkhead Failure; Jersey City, NJ
- Crane Collapse - Sparrows Points; Baltimore, MD
- Queen Isabella Causeway Collapse; Port Isabel to South Padre Island, TX
- Wedge vs. Cambridge Schools; Cambridge, New York
- State of New Jersey Dept. of Transportation/ State Attorney General’s office vs. Pierson-South State
- Cherry Creek Construction vs. George & Lynch, Inc. and Delaware Dept. of Transportation
- North Texas Tollway Authority v. Halff Associates; Frisco, TX
- Pier 34 Collapse; Philadelphia, PA
- Super Grid 1 + 2; Atlantic City, NJ
- Johnson vs. Cranesville Block; Rock Tavern, NY
- MacArthur Blvd. Interchange LADOT; Metairie, LA
- Schletter v. Schneider; NC, GA, TN
- Dune, Inc. vs. Hartz Mountain Industries, Harrison Riverside Ltd, and 700-760 First Street, LLC; Harrison, New Jersey;
- Port Liberte’ II vs. PMK; Jersey City, New Jersey
- Views at Hudson Pointe Condominium Association, Inc. vs. K. Hovnanian at Hudson Pointe, LLC, et al; North Bergen, New Jersey
- Fisher vs. Grigg & Davis; Rye, New York
- Prentice Women’s Hospital vs. High Concrete; Chicago, Illinois;
- Berth 7 Failure at the Port Freeport; Port Freeport, TX;
- 66 Main Street Building Collapse; Yonkers, NY
- Forensic Investigation of Overpaint Failure
- State of Indiana vs. Ronald Tobias and Amerigas Propane, LP

EDUCATION

M.S. Structural Engineering,
Rutgers University

B.S. Civil Engineering,
Cornell University

PROFESSIONAL ENGINEER

42 States and D.C.

CERTIFICATIONS

Association of Diving Contractors International (ADCI) Certified Diver
National Association of SCUBA Diving Schools (NASDS) Certified Diver
OSHA – 10 Hour Construction Industry Outreach
Structural Engineering Certification Board, 2005 – Certification No. 1339-0705

ENGINEERING SPECIALTIES

Structures
Civil
Bridge/Highway/Rail
Geotechnical
Facade/Building Envelope
Entertainment
Construction
NEW JERSEY (HEADQUARTERS)
530 Chestnut Ridge Road
Woodcliff Lake, NJ 07677
201.775.6000
Email: mgmclaren@mgmclaren.com

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
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<tbody>
<tr>
<td>NEW YORK CITY</td>
<td>131 West 35th Street, 4th Floor</td>
<td>212.324.6300</td>
<td></td>
</tr>
<tr>
<td>NY CAPITAL DISTRICT</td>
<td>5 Clinton Square, 3rd Floor Albany, NY 12207</td>
<td>518.992.4830</td>
<td></td>
</tr>
<tr>
<td>MARYLAND</td>
<td>601 East Pratt Street, Suite 302</td>
<td>410.243.8787</td>
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<tr>
<td>FLORIDA</td>
<td>201 N. Magnolia Avenue Suite 101</td>
<td>407.354.5411</td>
<td></td>
</tr>
<tr>
<td>PHILADELPHIA</td>
<td>One Washington Square 510 Walnut Street, Suite 1600 Philadelphia, PA 19106</td>
<td>215.310.3765</td>
<td></td>
</tr>
<tr>
<td>LEHIGH VALLEY</td>
<td>5100 West Tilghman Street Suite 265 Allentown, PA 18104</td>
<td>610.571.3240</td>
<td></td>
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<tr>
<td>GEORGIA</td>
<td>2573 Weeping Oak Trace Marietta, GA 30062</td>
<td>404.891.6412</td>
<td></td>
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<tr>
<td>CALIFORNIA</td>
<td>2044 Beebee Street San Luis Obispo, CA 93401</td>
<td>818.652.9157</td>
<td></td>
</tr>
<tr>
<td>CONNECTICUT</td>
<td>500 West Putnam Avenue Suite 400 Greenwich, CT 06830</td>
<td>203.244.1122</td>
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