



**D. KIRK MCCLUCKIE**  
**SENIOR CONSULTANT**

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Mr. McCluckie is a Senior Consultant for Engineering Systems Inc. (ESi). He is a construction expert with over 25 years' experience in the field of forensic engineering and construction management. Mr. McCluckie has investigated numerous construction defects associated with the performance of residential and commercial building systems and has served as an expert witness in trials. He is a Construction Manager who possesses a diverse skill set in the fields of structural, civil, and electrical engineering. Mr. McCluckie has extensive knowledge of building envelope and roofing systems. Within the insurance industry, he is a primary investigator of storm-damaged building materials and has served as an appraiser and umpire on several occasions.

**Areas of Specialization**

Construction Defects	Standard of Care
Storm Damage Investigation	Residential Structures
Construction Management	Commercial Structures
Building Envelope	Cost to Repair

**Education**

University of Illinois  
B.S., Civil Engineering, Engineering Management

Joliet Junior College  
Electrical/Electronic Automated Systems, Fluid Power, Hydraulics and Pneumatics

**Speeches**

Presented *Construction Defects Resulting in Water Infiltration* to City of Denver Community Planning & Development, Haselden Construction, Travelers Insurance Company and local Homeowner Associations in the Denver metro area.

**Positions Held**

**Engineering Systems Inc., Centennial, Colorado**  
Senior Consultant April 2022 to Present

**DKM2 Inc., Denver, Colorado**  
President & Forensic Engineer 2012 to 2022

**C3 Group, Inc., Centennial, Colorado**  
Director & Staff Engineer 2014 to 2021

**Western Engineering and Research Corporation, Denver, Colorado**  
Forensic Engineer/Project Manager 2012 to 2014



**The Vertex Companies, Inc., Denver, Colorado**  
Forensic Engineer 2005 to 2012

## **Continued Education**

OSHA 30-Hour Certification

OSHA HAZWOPER 40-Hour Certification

Level I Thermographer

HAAG Commercial and Residential Roofs, Wind Damage Certifications

SKYWARN Storm Spotter

## **Related Experience**

**[WATER TREATMENT PLANT]** Construction Manager for surety on the \$30M Northern Water Reclamation Project located in Colorado Springs, Colorado. Services included supplementing the existing management team of the electrical subcontractor, coordinating with the general contractor and engineer, preparing claims on behalf of the electrician, and assisting in the commissioning and startup efforts.

**[LUXURY CONDOMINIUMS]** Forensic Engineer / Construction Consultant on the rehabilitation of the Beauvallon Condominiums project in Denver, Colorado. Investigated construction defect claims and proposed realistic solutions to failed building components. Supervised and documented the reconstruction of the building's envelope, including interior bio-growth remediation.

**[MILITARY / HEALTH CARE]** Construction Manager for a surety on the Soldier Family Care Center project at Fort Carson in Colorado Springs, Colorado. Worked with Kiewit Building Group, Inc. to complete interior wall rework.

**[EDUCATIONAL - UNIVERSITY]** Construction Consultant on Aims Community College in Greeley, Colorado. Managed remaining contract work for surety.

**[EDUCATION – K-12]** Construction Consultant for the surety of a roofing subcontractor at Legacy Academy in Elizabeth, Colorado. Worked to cure numerous water infiltration issues on a metal roof system.

**[LODGING]** Construction Manager for the Marriott TownePlace Suites at Gateway Park project in Denver, Colorado. This LEED Silver Project includes construction of a new wood framed, 59,000 square foot, 4-story hotel with 99 rooms and associated site/utility work.

**[LODGING / RESTORATION CONTRACTING]** Restoration Manager for Arapahoe Development on the Hilton Homewood Suites hotel located in Englewood, Colorado. Managed and documented all water damaged areas throughout the hotel resulting from a frozen water pipe.



**[LODGING / BUILDING ENVELOPE]** Investigated the building envelope at the Fairmont Heritage Place / Franz Klammer Lodge in Telluride, Colorado.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 2912 Perry Street development in Denver, Colorado.

**[MULTIPLE PROPERTY DAMAGE CLAIMS]** Tornado - Windsor, Colorado. Consultant on multiple property claims resulting from a tornado that swept through Windsor, Colorado, on May 22, 2008. Prepared cost to repair estimates on insured properties. Damages resulted from hail and high winds.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 2925 S. Clarkson development in Denver, Colorado.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 3523 Stuart Street development in Denver, Colorado.

**[HOTEL]** Construction Manager on the \$13M Staybridge Suites Hotel project at Denver International Airport.

**[HIGH RISE CONDOMINIUM]** Expert Witness for a law firm involving a framing defect case in Denver, Colorado.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 4515 West Moncrieff Place development in Denver, Colorado.

**[HOTEL]** Construction Manager on a \$12 million new construction Marriot TownePlace Suites project at Denver International Airport. This 4-story, 200 room hotel was completed in 10 months and on budget.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 3602 Raleigh Street development in Denver, Colorado.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 3135 Zuni development in Denver, Colorado.

**[MULTI FAMILY]** Building Envelope Consultant for the developer at 1626-1628 South Grant Street development in Denver, Colorado.

**[MULTI FAMILY]** Post construction Building Envelope Consultant for First Tier Bank on the 3040 Zuni Lofts development.

**[SINGLE FAMILY]** Restoration Manager / Consultant for Brian and Lindsay Morgan located at 2551 S. Garfield Street, Denver, Colorado.

**[SUBDIVISION BOND WORK]** Reviewed multiple residential developments of a national home builder in the Denver metro area. Assessed remaining work required under the Subdivision Bond, and monitored the completion of remaining work at multiple developments.

**[STORM DAMAGE]** Consultant for insurance carrier on a large subdivision in Colorado that was subjected to storm-related damages during a tornado event in 2008. Assessed the damage and calculated the cost to repair.

**[STORM DAMAGE]** Analyzed multiple residential properties that sustained property damage resulting from a tornado that included high winds and hail. Consultant for the insurance company to assess damage and designed structural repairs to the residential building components.

**[HOTEL]** Construction Consultant on Hilton Garden Inn project in Fort Collins, Colorado; managed remaining contract work for surety.

**[HOTEL]** Construction Consultant on Marriott Spring Hills Suites project at Denver International Airport; managed remaining contract work for surety.

**[RESIDENTIAL TOWNHOMES]** Construction Consultant on the rehabilitation of the Snowmass Country Club Townhome project in Snowmass, Colorado. Monitored the quality of the exterior construction.

**[INDUSTRIAL WAREHOUSE / OFFICE SPACE]** Construction Consultant for City View Park Industrial Center in Denver, Colorado. Multiple metal roofs were replaced as a result of storm-related damages.

**[COMMERCIAL / RESIDENTIAL BUILDING]** Building Envelope Expert for Markel Insurance in Denver, Colorado. Assessed damage to the masonry façade and other exterior building materials installed at the property.

**[COMMERCIAL BUILDING / PROFESSIONAL SPORTS FACILITY]** Construction Consultant for Gold Crown Foundation in Lakewood, Colorado. Multiple roofs were replaced as a result of storm-related damages.

**[MULTI FAMILY / CONDOMINIUMS]** Construction Consultant for Roth Park COA located in Federal Heights, Colorado. Multiple roofs were replaced as a result of storm-related damages.

**[MULTI FAMILY / CONDOMINIUMS]** Construction Consultant for Summit Park COA located in Colorado Springs, Colorado. Multiple roofs were replaced as a result of storm-related damages.

**[SINGLE FAMILY]** Construction Consultant for Mr. Andrew Behrens located at 10600 Stonington Street in Highlands Ranch, Colorado. Building Department requested additional information on a new deck installation.



**[MULTI FAMILY / CONDOMINIUMS]** Construction Consultant for Buttermilk Road. LLC. located in Denver, Colorado. Assessed storm-related damage to the building's envelope.

**[SINGLE FAMILY]** Construction Consultant / Expert for Mr. Joel Scott located at 14410 Highway 285 in Salida, Colorado. Assisted with estimating the cost to repair multiple construction defects associated with the building envelope.

**[COMMERCIAL BUILDING / RETAIL]** Building Envelope Expert for Ms. Alice Marsh in Denver, Colorado. Assessed storm-related damage to the rubber membrane roof system.

**[INSURANCE CLAIM / APPRAISER]** Appointed by the Insured to appraise storm-related damages to multiple buildings in Colorado Springs, Colorado.

**[COMMERCIAL BUILDING]** Building Envelope Expert for Paragon Properties, Inc. in Arvada, Colorado. Assessed storm-related damage to a commercial roof system.

**[SINGLE FAMILY]** Construction Consultant / Expert for RJI Professionals, Inc. located in Golden, Colorado. Assisted with construction defects associated with a new roof installation on a single-family residence.

**[INSURANCE CLAIM / APPRAISER]** Appointed by the Insured to appraise storm-related damage to a roof system in Kenosha, Wisconsin.

**[INSURANCE CLAIM / APPRAISER]** Appointed by the Insured to appraise storm-related damage to multiple roofs in Mount Pleasant, Wisconsin.

**[COMMERCIAL BUILDING / RETAIL]** Building Envelope Expert for Mr. Mohammad Raeouf in Lakewood, Colorado. Assessed storm-related damages to multiple commercial buildings.

**[COMMERCIAL BUILDING]** Weather Consultant for Rocky Mountain Water Jet, LLC in Greeley, Colorado. Researched weather data from a recent storm event that caused damage to various types of building materials installed at the property.

**[CHURCH / OFFICE SPACE]** Building Envelope Expert for South Hills Christian Church in Fort Worth, Texas. Assessed storm-related damage to the building's envelope.

**[COMMERCIAL BUILDING / RETAIL]** Building Envelope Expert for WJEM, LLC in Denver, Colorado. Assessed storm-related damage to the building's envelope.

**[INSURANCE CLAIM / UMPIRE]** Appointed by American Family Insurance, agreed to by the Insured, to make a binding decision associated with storm-related damages to the building's envelope in Aurora, Colorado.

**[INSURANCE CLAIM / APPRAISER]** Appointed by the Insured to appraise storm-related damages to a multi-family building in Swansea, Illinois.



**[SINGLE FAMILY]** Construction Consultant / Expert for Mr. and Mrs. Huguen in Littleton, Colorado. Assisted homeowners with identifying construction defects associated with a new basement finish.

**[INSURANCE CLAIM / SINGLE FAMILY]** Expert for Crest Exteriors, LLC. Assessed storm-related damage to a wood shake roof in Aurora, Colorado.

**[INSURANCE CLAIM / SINGLE FAMILY]** Expert for Crest Exteriors, LLC. Assessed storm-related damage to a wood shake roof in Longmont, Colorado.

**[MULTI FAMILY / CONDOMINIUMS]** Construction Consultant / Expert for Eastmoor Park Condominiums located in Denver, Colorado. Assisted the COA with identifying construction defects associated with a new roof installations.

**[SINGLE FAMILY]** Construction Consultant / Expert for Mr. and Mrs. Johannes in Castle Rock, Colorado. Assisted homeowners with identifying construction defects associated with a new semi-custom home.

**[COMMERCIAL BUILDING / RETAIL]** Building Envelope Expert for iConstruction Specialties, LLC in Arlington, Texas. Investigated storm-related damages to a large office building and authored an expert report for the building's owner.

**[COMMERCIAL BUILDING / RETAIL]** Building Envelope Expert for iConstruction Specialties, LLC in Jackson, Mississippi. Investigated storm-related damages to a large office building and authored an expert report for the building's owner.

**[SINGLE FAMILY]** Construction Consultant / Expert for Stellar Painting & Remodeling in Denver, Colorado. Assisted contractor with alleged construction defects associated with an exterior rehabilitation on a single-family residence.