

GEOFF MALTESE

P.Eng. (ON), P.E. (CA), BEC&P and CxA+BE, LEED™ AP
CEO, Senior Principal



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Education

University of Waterloo, Waterloo, ON
B.A.Sc. in Civil Engineering, 2010
Specialty in Structural Engineering
Specialty in Building Science
Option in Management Sciences

Experience

*Falcon Edge Consulting Corp. (FECC),
Senior Principal (Owner)
Toronto, ON*
*Morrison Hershfield (MH),
New Construction Lead
Toronto, ON*
*WSP
Technical Lead
Toronto, ON*
*Falcon Enclosure Consulting, Inc. (FEC),
Senior Principal (Owner)
San Francisco & Los Angeles, CA*
*Tremco,
Design & Engineering Specialist
Los Angeles, CA*
*Simpson Gumpertz & Heger Inc. (SGH),
Engineering Consultant
Boston, MA & Los Angeles, CA*
*PCL Civil Southeast,
Field Engineer
Orlando, FL*
*PCL Constructors, Inc.,
Assistant Superintendent
Toronto, ON*

Professional Registrations

Professional Engineer (Civil), Ontario
Professional Engineer (Civil), California

Other

Building Enclosure Commissioning:
BEC&P and CxA+BE
LEED™ BD+C AP, USGBC

Geoff is a dynamic engineering professional dedicated to client-focused service and fostering strong working relationships to ensure effective project execution and secure repeat business. With a diverse and extensive background across various construction domains, Geoff offers a unique perspective on problem-solving throughout both design and construction phases, delivering effective solutions to complex challenges. In addition to commercial, multi-family residential, and mixed-use building, Geoff has significant expertise in high-performance buildings like major event facilities, museums, laboratories, and hospitals.

REPRESENTATIVE PROJECTS

DESIGN CONSULTING AND CONSTRUCTION ADMINISTRATION (CA)

Building Enclosure - Museum and Archives

- Packard Film Archive and Preservation Center, Santa Clarita, CA. (Client: Architect; Entire building enclosure design review and CA for film archives and museum space.)
- Academy of Motion Picture Arts and Sciences, Los Angeles, CA. (Client: Architect; Entire building enclosure restoration and new theater design consulting for historic building on LACMA campus including theaters and museum spaces.)
- BROAD Art Museum, Los Angeles, CA. (Client: Architect; Entire building enclosure design consulting and CA for high-profile art museum.)
- Menil Drawing Institute, Houston, TX. (Client: Architect; Entire building enclosure design consulting building with sensitive museum and archive space.)
- Marciano Art Gallery, Los Angeles, CA. (Client: Owner; Building enclosure rehabilitation design consulting on existing church to be converted to art gallery.)

Building Enclosure - Hospital and Laboratory

- Wadsworth Center Laboratories, Albany, NY. (Client: Owner; Leak investigation and repair design of an air plenum and curtain wall light well below a plaza deck and reflecting pool.)
- San Geronio Memorial Hospital, Banning, CA. (Client: General Contractor; Entire building enclosure peer review and CA of new hospital building.)
- Leslie L. Dan Pharmacy Building, Toronto, ON. (Assistant Project Superintendent with PCL Constructors Inc.; Construction administration during original construction of thirteen-story university building with suspended steel classrooms.)
- 77 Wade Ave – Catalyst, Toronto, ON. (Client: Dialog; Building enclosure design including product specifications, detailing, construction administration/monitoring, and unitized curtain wall design support.)

Building Enclosure – Institutional and Specialty

- University of Toronto, Innis College, Toronto, ON. (Client: Montgomery Sisam; Building enclosure design including product specifications, detailing, and construction administration/monitoring. Building includes connection to multiple existing and historic buildings.)
- UCSB Davidson Library Addition and Renewal, Santa Barbara, CA. (Client: Architect; Entire building enclosure peer review for existing library and addition.)
- Coronation Park Sports and Recreation Center, Edmonton, AB. (Client: City of Edmonton; Enclosure commissioning agent for the design and construction of the large multi-sport complex which will be a community and social hub.)
- Chapman University – Hilbert Museum, Orange, CA. (Client: Owner; Existing building investigation and repurpose design consultant for teaching space and art museum.)
- Energy Service Modernization (ESM) Energy Services Acquisition Program (ESAP), Ottawa, ON / Gatineau, QC. (Enclosure commissioning agent for the design and construction of two energy new plants.)
- 1001 Van Ness Atria, San Francisco, CA. (Client: Related California; Building enclosure design including product specifications, detailing, and construction administration/monitoring.)

Building Enclosure - Commercial

- 6344 Fountain, Hollywood, CA. (Client: Architect; Above-grade and roofing design review and construction administration.)
- Sunset Las Palmas Studios, Hollywood, CA. (Client: Architect; Above-grade and roofing design review and construction administration.)



DESIGN CONSULTING AND CONSTRUCTION ADMINISTRATION (CA)

Building Enclosure – Commercial, Mixed-Use, and Large Single-Family Residential

- Bayview Village North, North York, ON. (Client: Quadreal; Building enclosure design review including product specifications, detailing, construction administration/monitoring, and Pro-Deminity for 3 new mixed-use building and mall addition.)
- 30 Merton, Toronto, ON. (Client: Quadreal; Pro-Deminity IBEC services for new mixed-use tower.)
- 310 Kingston Rd, Ajax, ON. (Client: Ledim Developments; Building enclosure design review including product specifications, detailing, construction administration/monitoring, and Pro-Deminity.)
- 190 Westney Rd, Ajax, ON. (Client: Ledim Developments; Building enclosure design review including product specifications, detailing, construction administration/monitoring, and Pro-Deminity.)
- Hilton Tempo Hotel, Tucson, AZ. (Client: Mayse & Associates; Building enclosure design review including product specifications, detailing, construction administration.)
- Grand Cayman Residence, Georgetown, Grand Cayman. (Client: Richard Wengle Architect; Below-grade waterproofing consultation for high-end beachfront property.)
- State Window Corporation, Vaughan, ON. (Client: State Window Corporation; Provide expert consulting services for the development of new window systems for production and implementation, review project documents for Pro-Deminity compliance.)
- Bristol Court, Mississauga, ON. (Client: Quadreal; Building enclosure design including product specifications, detailing, construction administration/monitoring, and Pro-Deminity.)
- Rosehill Tower / Breton Place, Toronto, ON. (Client: Quadreal; Building enclosure design including product specifications, detailing, construction administration, and Pro-Deminity.)
- West Don Lands, Block 8, Toronto, ON. (Client: Tricon, Kilmer, Dream; Building enclosure design including product specifications, detailing, construction administration/monitoring, and Pro-Deminity for multi-tower development.)
- West Don Lands, Block 10 – Indigenous Hub, Toronto, ON. (Client: Tricon, Kilmer, Dream; Building enclosure design including product specifications, detailing, construction administration/monitoring, and Pro-Deminity for multi-tower development.)
- West Don Lands, Block 3, 4, 7, Toronto, ON. (Client: Tricon, Kilmer, Dream; Building enclosure design including product specifications, detailing, construction administration/monitoring, and Pro-Deminity for multi-tower development.)
- Crosstown Block 5a, Toronto, ON. (Client: Larco; Building enclosure design including product specifications, detailing, construction administration/monitoring, and unitized curtain wall design support.)
- Tasman East – Residential Tower, Santa Clara, CA. (Client: Related California; Building enclosure design including product specifications, detailing, and construction administration/monitoring.)
- Tasman East – Atria, Santa Clara, CA. (Client: Related California; Building enclosure design including product specifications, detailing, and construction administration/monitoring.)
- 1500 Mission, San Francisco, CA. (Client: Related California; Field engineering and site observations of transitions and atypical conditions.)

Building Enclosure - Wood-framed Construction

- Georgina Cottage, Georgina, ON. (Client: Richard Wengle Architect; Entire building enclosure design consulting for large lakefront residence and construction review for the full building enclosure.)
- 119 Burgundy Dr, Oakville, ON. (Client: Guido Costantino Projects, Inc.; Entire building enclosure design consulting for ultra-modern single-family residence and construction review for critical building enclosure systems.)
- Mason on Mariposa (1601 Mariposa) Apartments, San Francisco, CA. (Client: Owner; Entire building enclosure design consulting, construction administration, and construction management for three luxury apartment buildings.)
- Villas at Bair Island, Redwood City, CA. (Client: Owner; Investigation of water entry and waterproofing repair design for elevated decks and cement plaster walls.)
- Torrey Ridge Apartments, San Diego, CA. (Client: Owner; Waterproofing repair design and CA for elevated decks and cement plaster walls.)
- Archstone Seattle, Seattle, WA. (Client: Owner; Investigation of exterior water entry, development of repair designs, and CA during repairs of elevated decks and EIFS walls.)
- INclave, Marina Del Rey, CA. (Client: West Builders; Redesign fenestration details for new window system and provide field engineering to supplement construction documents.)
- Cypress 1641 Lincoln, Marina Del Rey, CA. (Client: West Builders; Redesign fenestration details for new window system and provide field engineering to supplement construction documents.)

THERMAL, HYGTROTHERMAL, AND ENERGY MODELLING

- Confidential Medical Center, Boston, MA. (Client: Reynaers; Thermal analysis of proposed window system for use in a medical center.)
- Round Hill Aquatic Complex, Loudoun County, VA. (Client: Architect; Thermal analysis of proposed wall, roof, and windows systems for a natatorium.)
- Menil Drawing Institute, Houston, TX. (Client: Architect; Thermal and hygrothermal analysis of proposed above-grade and below-grade wall assemblies for museum space.)
- Academy of Motion Picture Arts and Sciences, Los Angeles, CA. (Client: Architect; Thermal and hygrothermal analysis of proposed wall systems for theaters, archives, and museum.)
- Packard Film Archive and Preservation Center, Santa Clarita, CA. (Client: Architect; Thermal and hygrothermal analysis of proposed wall systems for film archives and museum.)
- Lake Toxaway Residence, Lake Toxaway, NC. (Client: Architect; Design consultation, thermal modeling, and hygrothermal modeling of private lake house.)



- Del Mar Plaza, Del Mar, CA. (Client: Architect; Thermal and hygrothermal modeling of existing and new building enclosure for a new building and energy-efficient retrofit.)
- La Quinta Hotels, Fort Lauderdale and Miami, FL. (Client: Attorney / Owner; Design consultation and hygrothermal modeling of existing and proposed wall systems.)
- California State University Channel Islands, Camarillo, CA. (Client: Architect; Hygrothermal modeling of proposed wall systems for classrooms and sensitive laboratory space.)
- California State University Riverside, Riverside, CA. (Client: Architect; Hygrothermal modeling and analysis of proposed roof assemblies over lightweight structural concrete.)

INVESTIGATION, TESTING, AND REHABILITATION

Building Enclosure – Commercial and Mixed-Use

- 20 York Skywalk, Toronto, ON. (Client: Allied REIT; Investigate water intrusion and material failure issues, and design full repair for rehabilitation program of the main building.)
- Bretton Place Pavilion, Toronto, ON. (Client: Quadreal; Investigate condensation issues in new natatorium building, design repairs to address the issues, and review repairs being implemented.)
- The Birmingham, Etobicoke, ON. (Client: Quadreal; Investigate parapet condensation issues in new industrial building, design repairs, and review repairs being implemented.)
- University of Toronto Scarborough Academy of Medicine and Integrated Health, Scarborough, ON. (Client: Contractor; smoke testing of installed methane barrier.)
- Nevis Condominiums, Etobicoke, ON. (Client: Nevis Condominiums; Monitor, and design required repairs for 20-year-old condominium complex.)
- Santa Monica Doubletree Suites, Santa Monica, CA. (Client: JN+A; Existing skylight investigation, replacement recommendations and design.)
- The Waverly Condominiums, Santa Monica, CA. (Client: Related California; Direct investigation and water testing, design repairs, and verification of successful repairs.)
- Acama Villas, North Hollywood, CA. (Client: Acama Villas HOA; Investigate existing water intrusion issues, design repairs and remediation, and review completed repairs.)
- Oakland Towers, Pasadena, CA. (Client: HOA; Investigate existing water intrusion issues and prepare repair recommendations for contractors to use.)
- State Compensation Insurance Fund, Bakersfield, CA. (Client: Owner; Observations, testing, and documentation of architectural deficiencies and water leakage.)
- Amtrak Station, Van Nuys, CA. (Client: Owner; Observations, testing, and documentation of architectural deficiencies and water leakage for building maintenance purposes.)
- Legado Apartments, Legado, CA. (Client: Owner; Observations, testing, repair recommendations, and construction administration for below-grade leak repairs via grouting.)
- Harvard Sherman Fairchild Building, Cambridge, MA. (Client: Owner; Investigation of existing IGU windows and design consulting for window replacement. Project investigator.)

Building Enclosure - Wood-framed Construction

- Stoneybrook Apartments, Orlando, FL. (Client: Attorney / Owner; Observation, investigation, and documentation of architectural deficiencies and water leakage.)
- Cupertino Condominiums, Cupertino, CA. (Client: Attorney / HOA; Observation and investigation of condominium units for construction litigation purposes.)
- Granite Park Condominiums, Pasadena, CA. (Client: Owner; Water testing of windows and penetrations.)

Stone Cladding Rehabilitation

- Swan Street Building, Albany, NY. (Client: Owner; Rehabilitation of marble cladding and green roof design. 1000 ft long, marble-clad building constructed in the 1960s.)
- Cultural Education Center, Albany, NY. (Client: Owner; Investigation of attachment failure of structural rehabilitation design for exterior marble cladding panels.)
- 75 State Street, Boston, MA. (Client: Owner; Investigation, observation, documentation, and repair design of granite cladding panel attachments.)



PUBLICATIONS AND PRESENTATIONS

- The Building Enclosure: Where Small Gaps Become Big Problems, Tucson, Arizona, Bourn Companies, January 2026.
- Pro-Demnity Compliance and Common Window Wall Issues, Vaughan, Ontario, State Window Corporation, 2024.
- Below-Grade Waterproofing Repair Techniques, Toronto, Ontario, B&CRAO, May 2023.
- Compatibility between Building Enclosure Materials / Systems, Toronto, Ontario, MH, 2023.
- Stucco / Cement Plaster System Evolution, Canada. WSP, September 2022.
- Critical Below-Grade Waterproofing Details and Transitions, Canada. WSP, May 2021.
- Crash Course in Understanding Window Types and Construction QA/QC, Pasadena, California. Hensel Phelps, November 2020.
- Developing a Complete Waterproofing System for Integration with Existing Structures, Los Angeles, California. McCormick Construction, 2019 – 2020.
- Exterior Wall Installation for Energy Efficient Façades, GL Builders, San Francisco, California. 2018.
- Complex Transitions and Alternate Joint Sealing Methods with Precast Concrete and GFRC, Clark Pacific, Sacramento, California. 2017.
- Air Barriers and Designing for Budget and Building Performance, Los Angeles, California. Multiple Architecture Firms. 2016 – 2017.
- Designing and QA/QC of Hot Rubberized-Asphalt Waterproofing, Multiple Consulting Firms, Los Angeles, California. 2016.
- Understanding Air and Vapor Barrier Systems, Greenbuild Los Angeles Conference, Los Angeles, California. 2016.
- Addressing Complex Transitions between Systems for the Whole Building Envelope, Letner Roofing, Anaheim, California. 2016.
- Updates to California Energy Code and CalGreen Requirements, AIA San Francisco, San Francisco, California. 2014.
- Understanding the 2013 California Energy Code, Simpson Gumpertz & Heger, Los Angeles, California. 2013.
- Project Closeout and Developing a Maintenance Manual for Optimized Building Enclosure Performance, Simpson Gumpertz & Heger, Los Angeles, California. 2012.
- Drawing Development and Drafting, and Construction Administration and Construction Safety, UCSD, Construction Engineering Lecture, 2011 – 2013.