

Curriculum Vitae 2021



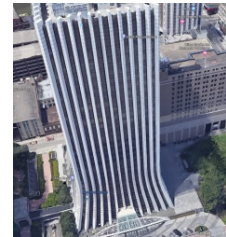
Mr. Howie, a Registered Architect since 1981, brings significant experience including **building failures/forensics**, design and construction documents, construction management, and strategic real estate planning. In addition to public sector clientele such as Smithsonian, National Gallery of Art, CIA, FBI, Pentagon, and Virginia Tech University, he has also developed and built significant properties for commercial developers, and worked closely with **notable high-net-worth clients** developing and repairing their extraordinary private residences. Lewis' strong analytical and aesthetic skills coupled with effective human relations enable him to lead projects seamlessly through all phases of a project, with appropriate attention to detail at every point.

SIGNIFICANT PROJECTS

**Lincoln First Bank: Building Envelope Failure**

*Architectural Forensic Analysis and Repair Documentation*  
Litigation Support on behalf of Plaintiff (Lincoln First Bank)

Failing 1" thick marble panels – temporary and permanent cladding required  
Temporary repair - ¾" plywood panels with closed cell gaskets  
Final repair - custom ¼" thick pre-finished insulated aluminum panel - \$20 million  
27 Story Headquarters Office in Rochester, NY  
1982-1984



**Central Intelligence Agency: Headquarters Building Window Replacement**

*Architectural Design and Construction Drawings*

Project Management, Technical design and documentation, construction oversight  
Existing 30 year old steel operable single pane glass set in precast panels  
New fixed insulated low-e windows assembled from standard extrusions  
Meticulous construction oversight of 5000 replacements over 5 years, error free  
7 Story 1.4 Million SF McLean, VA  
1990-1995



**Prominent Seattle Family Main Residence: Window Replacement**

*Architectural Design and Construction Drawings*

Program Management, Technical design, construction oversight  
750 "heat mirror" insulated units discoloring at end of 10 year warranty  
Family required work to be done while off site requiring 3 year phasing  
60,000 sf, \$130 million Primary residence overlooking Lake Washington  
2005-2008



**Pritzker Residence: Post Occupancy Envelope and Mechanical Repairs**

*Forensic Investigation and Repair Design*

Issues: condensation damage, temperature control, insufficient hot water  
Solutions: HVAC controls integration with home controls, added fin tube at large south facing window, supplemental hot water boiler  
Repairs negotiated with original developer without legal recourse  
4 Story, \$6 million, Single Family Residence in Chicago, IL  
2010 – 2014



PROFESSIONAL QUALIFICATIONS

- Registered Architect State of Michigan No. 1301027951 1981- Present
- Registered Architect State of Maryland No. 14017 2012- Present
- Registered Architect State of Florida No. 4910102 2019 - Present
- LEED AP 2005 - Present

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**PROFESSIONAL AFFILIATION**

- American Institute of Architects 2006 to Present
- Washington Building Congress 1996-2006

**EDUCATION**

- University of Michigan
  - Bachelor of Science - Architecture 1974
  - Master of Architecture 1977
  - Master of Urban Planning 1978
- Harvard University
  - On-site Continuing Education in Laboratory Design 1994

**OTHER PROJECTS**

- FBI Firearms Range Development Program – Strategy/Forensics/Repair 2019
- FBI Strategic Workplace and Real Estate Management Leader 2016-2018
- FBI Direct Leasing Program Leader 2015-2016
- FBI Program Management of Real Estate and Construction Management 2013-2014
- Smithsonian Seal and Sea Lion Exhibit – Forensics Evaluation/Repair 2015-16
- Pritzker’s Yellowstone Club New Residence Owner Representation 2014-2015
- Pritzker Chicago residence envelope and mechanical evaluation/repair 2014
- Library of Congress – Real Estate Analysis for Long-term storage 2013
- National Gallery of Art Stone Façade – Forensics Evaluation/Repair 2010-2012
- Smithsonian Seal and Sea Lion Exhibit – Construction Oversight 2009-2012
- Glenstone Museum Stone Façade – Forensics Evaluation/Repair 2010
- Bajaj Family New Residence - Owner Representation, Evaluation/Repair 2010
- White House Visitor’s Center – Owner Representation 2009
- Confidential client – 21,000 sf high-end new commercial office space 2008-2009
- Entitlement analysis for Urban Visions on 18 downtown Seattle properties 2008
- Confidential client – 750 window replacements main residence 2005-2008
- Confidential client – Facility assessments and indexing, all residences 2008
- Vulcan Inc. – Facility assessments and indexing, all residences of Paul Allen 2008
- Confidential client – Yellowstone Club residential expansion 2007
- Confidential client – Swimming Pool forensic evaluation/repair 2005
- Ronald Reagan Center – International Trade Center Owner’s Representation 2004-05
- Department of Education – Data Center Owner’s Representation 2004-2005
- CIA Headquarters’ Cafeteria Expansion Master Plan 2004-2005
- Montgomery County Circuit Court Expansion Master Plan 2003
- CIA Headquarters Masterplan 2003
- Army’s Warrenton Training Center Masterplan 2002
- Kelly Miller Middle School construction oversight 2001
- Pentagon – Multiple post 9/11 attack environmental evaluations 2001
- Hughes Aircraft/Raytheon new office development 2000
- National Reconnaissance Office site security evaluation and improvements 1999-2001
- Bradley Hills Presbyterian Church – 6,000 sf, \$2m addition 1997-2000
- Risk Management and Quality Assurance Director – URS Corp. 1996-2000
- FAA –Programming and design for prototype air traffic control facility 1995-96
- Planning study of 2-acre residential site in Alexandria VA 1995
- 350,000 sf Office tenant fit-up for high-security government tenant 1994
- National Photographic Interpretation Center, various renovations of lab space 1994
- Brown Memorial Woodbrook Presbyterian Church, 40,000 sf, \$2.2 m addition 1990-94
- Red Cross Square Strategic Master Plan and Renovation Implementation 1993-94
- Virginia Tech University Strategic Master Plan address ADA implementation 1993

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- National Cancer Institute – Biological laboratory expansions 1993
- CIA – Strategic Real Estate Consolidation Master Plan and Implementation 1993-95
- FBI – various planning and renovation work at Headquarters and Quantico 1992-95
- Smithsonian – Masterplan of 115 year old Arts and Industries Building 1992-93
- Smithsonian – Masterplan of 130 year old Castle HQ, Historic Stuct. Rep. 1993-94
- NASA Goddard Space Flight Center – various feasibility studies 1991
- CIA – multiple headquarters building renovations, 2.5 million sf office/lab 1991-1996
- CIA – Masterplan and renovations to 1.4 million sf 1960 original HQ building 1986-91
- CIA – Window Replacement Project – 5,000 units phased 5 years 1987-1992
- Hyatt Hotel Grand Cayman – design and construction administration onsite 1986
- Shirlington VA Office and Retail Development – design/construction oversight 1985
- Standard Federal Branch Bank Rochester Michigan – design/construction 1984
- CIA’s New 1.1 m sf, \$162 m New Headquarters Building, Project Architect 1983-84
- Pomerado Hospital – Forensic Evaluation of Leakage at window walls 1982-83
- Lincoln First Bank – Evaluation/detailing of \$20 m recladding of 27 story HQ 1982-83
- Ford Aerospace R&D 122,000 sf Interior Renovation – Construction Oversight 1982
- Defense Intelligence Agency HQ, \$100 m – Executive Areas custom designs 1982
- Fort Carson Army Hospital, \$200 m – Project Architect interior development 1980-81
- Comprehensive Health Services of Detroit – Project Architect 1981
- Harper Grace Tenant Suites – Project Architect 1981
- General Electric R&D Facility \$40 m office/laboratory facility 1980
- Inter-Cooperative Council \$2.4 m HUD loan, 12 student house renovations 1977-80

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## LECTURES, PUBLICATIONS

- Planning for Dearborn as a Pluralistic Community 1984
- Project Management, The Building Industry - Johns Hopkins Civil Eng. Course 1991
- ADA Removes Barriers for the Disabled - various lectures and publications 1991-92
- Critical Path Method Diagramming – Making the Invisible Visible 2002
- Keeping Buildings in Shape - Facility Condition Indexing – Seattle publication 2007
- Quality Challenges in the Building Industry, multiple presentations 2014-15