

G. Douglas White P.E., F. ASCE
Thomas Downey, Ltd., Consulting Engineers
301 North Fairfax Street, Suite 108, Alexandria, Virginia 22314

EDUCATION

M.S. Civil Engineering
University of Missouri, Columbia, 1983

B.S. Civil Engineering
Washington University, St. Louis, 1980

B.A.
Earlham College, 1980

PROFESSIONAL BACKGROUND AND EXPERIENCE

THOMAS DOWNEY, LTD. Alexandria, VA
Principal 1994 - Present

Consulting engineer for building structures, exterior wall systems, windows, masonry, concrete repairs, waterproofing, roofing, swimming pools, historic structures, retaining walls, foundation repairs, and construction. Technical oversight for repair and restoration work. Failure investigation, forensic engineering, and expert testimony in litigation work. Capital budget studies for community associations and commercial properties.

CONSOLIDATED ENGINEERING SERVICES Arlington, VA
Vice President 1993 - 1994

Management of the Professional Services Division that included all professional engineers and other technical professional staff in the company. Personnel included technical professionals in the areas of mechanical, electrical and structural engineering, architecture, landscape architecture, horticulture, elevators, environmental engineering, energy conservation, accessibility, and building codes.

THE CHARLES E. SMITH COMPANIES Arlington, VA
Senior Construction Specialist 1988 - 1992

Technical consulting and project management for structural repairs, roofing, brick and stone masonry, below-grade water leaks, renovation and restoration projects, environmental problems, code and regulatory issues, and other building construction issues at residential, commercial, retail, hotel, and condominium properties.

MAJESTIC BUILDERS Chevy Chase, MD
Construction Manager 1986 - 1988

Construction management for a commercial and residential builder/construction manager.

C.J. COAKLEY COMPANY Merrifield, VA
Project manager and Estimator 1985 - 1986

Project management and estimating for interior finish work, fireproofing, and plastering.

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WHITE AND CONGLETON COMPANY
Project manager and Estimator

Lexington, KY
1984 – 1985

Project management and estimating at a general contracting firm.

BLACK AND VEATCH ENGINEERS
Civil and Structural Design Engineer

Kansas City, KS
1980 – 1984

Civil and structural engineering design of commercial and industrial facilities.

PROFESSIONAL REGISTRATIONS

Professional Engineer
State of Maryland, No. 20312

Professional Engineer
Commonwealth of Virginia, No. 21508

Professional Engineer
District of Columbia, No. 9875

Professional Engineer
Commonwealth of Kentucky, No. 14370

Professional Engineer
State of Pennsylvania, No. PE075646

Professional Engineer
State of North Carolina, No. 034280

Certified as a Real Property Administrator (R.P.A.) by The Building Owners and Managers Institute International

OTHER TECHNICAL TRAINING

American Concrete Institute - Concrete Troubleshooting and Repairs, Design of Slabs-on-Grade, Building Code Requirements, Concrete Durability

American Society of Civil Engineers - Wind Loads on Buildings, Structural Renovation of Buildings

American Society of Testing and Materials – Condensation in Building Walls, Exterior Insulated Finish Systems

American Wood Council – Building Code standards for wood construction; wood design.

Association for Preservation Technology International - Structural Timber Framing and Trusses, Diagnostics, Moisture Control in Historic Buildings, Iron in Historic Structures, Masonry, Stone, and Timber Restoration

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Building Science Corporation – Building science fundamentals

Building Stone Institute - Stone Repair and Restoration

Hilti Corporation - Anchor Bolt Technology

International Code Council - Fair Housing Act and Accessibility

International Concrete Repair Institute - Corrosion in Concrete Structures

Lorman Educational Services - Mold Prevention and Remediation

Massachusetts Institute of Technology - Preservation of 20th Century Buildings

National Park Service - Roofing for Historic Buildings

National Roofing Contractors Association - Commercial Roof Problem Analysis and Roofing Options

New York Landmarks Conservancy - Restoration and Repair of Terra Cotta

Precast/Prestressed Concrete Institute - Precast/Prestressed Concrete Design

Roofing Industry Education Institute - Re-Roofing Design

Southern Pine Council - Wood Construction in Marine Environments

The Masonry Society and American Concrete Institute - Masonry Design

Tile Council of North America - Ceramic Tile Technology

University of Wisconsin - Masonry Design and Construction, Design for Structural Serviceability, Non-Destructive Testing Methods, Composite Materials for Construction, Soils Engineering, Asphalt Pavement Construction and Maintenance, Moisture Control in Buildings, Building HVAC Systems

Virginia Polytechnic Institute - Computerized Design of Wood Structures, Design of Wood-Framed Structures for High Wind Loads, Design of Metal Plate-Connected Wood Trusses, Designing for Lateral Loads in Wood-Framed Structures, Basic Design of Wood-Framed Structures

Virginia Chapter of the American Concrete Institute and the American Concrete Paving Association, Repair and maintenance of bridges and concrete pavement

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PROFESSIONAL AFFILIATIONS

American Concrete Institute (ACI)
American Society of Civil Engineers (ASCE), Fellow
American Society of Testing and Materials (ASTM)
Association for Preservation Technology (APT)
Construction Specifications Institute (CSI)
Structural Engineering Institute (SEI)
Structural Engineers Association (SEA)
International Code Council (ICC)
National Trust for Historic Preservation
Community Associations Institute (CAI)

TEACHING EXPERIENCE

1984 Construction Cost Estimating, University of Kentucky
1994 Design and Construction of Buildings, BOMA
1997 Building Exteriors, CAI
1998 Asset Management, AOBA
1998 Post Tensioned Concrete Repairs, CAI
1999 Structural Concrete Repairs, ICRI
2000 Consulting firm ownership transition, SEA
2001 Maintaining the Exterior Envelope, AOBA
2001 Concrete in Residential Buildings, American Society of Home Inspectors
2002 Reserve Studies, CAI
2002 Masonry Repairs, AOBA
2003 Plaza Decks and Waterproofing, AIA
2003 Problems with Older Buildings, CAI and NAHC
2003 E-Learning initiative, CAI
2004 Parking Management, AOBA
2004 Project Management, CAI
2008 Building Codes, Lorman Educational Services
2009 Building Codes, Lorman Educational Services
2009 Green Property Management, CAI
2010 Green Property Management, CAI
2011 Building Codes, Lorman Educational Services
2012 Reserve studies, District of Columbia Cooperative Coalition
2013 Reserve studies, CAI

TECHNICAL PUBLICATIONS

1998 The Performance of Brick and Concrete Masonry Walls with Bonded Headers, for ASTM.