

PROFESSIONAL EXPERIENCE

2012 to present **Robson Forensic, Inc.**
Associate

Provide technical investigations, analysis, reports, and testimony for failure analysis, and towards the resolution of commercial and personal injury litigation involving trip and fall injuries, construction materials failures, code compliance issues, construction claims, and professional liability. Areas of expertise include:

Building Failures: Foundation cracking, settling, or failures due to soil conditions, grading, and water intrusion; roof and wall collapses; construction means and methods.

Construction Materials Failures: Water intrusion related issues; brick, stone, and concrete spalling; gutter and flashing system failures; roofing system failures; expansion joint failures; sealant and caulk system failures, window system failures.

Building Design and Planning: Building codes and standards; means of egress; security; retrofitting requirements.

Site Design and Planning: Site planning; zoning; grading and drainage; control of storm water; parking lots; access for persons with disabilities.

Building Inspection: Comprehensive and systematic review of building components including structure and building envelope. Experienced in use of various scaffolding systems and lift truck operation for use on multi-story building facades.

Building Condition Assessment Report Preparation: Analysis and evaluation of building components to propose imminent and programmatic repair needs including cost evaluation for repairs, rehabilitations and upgrades.

Wood Frame Construction: Design of additions and construction of wood frame houses; foundations, floors, walls and roof framing, energy code compliance, exterior and interior finishes.

Cost Estimating: Preparation and review of building construction cost estimating for new construction, building alterations and rehabilitation.

Trip Accidents: Measurement and analysis of stair geometry and construction; single steps; misalignments of walking surfaces; gratings; sidewalks – obstructions and maintenance; unmarked sloped areas.

Slip Accidents: Measurement of coefficient of friction of wet and dry surfaces; slip accidents occurring on stairs, ramps, parking lots, sidewalks, dance floors, supermarkets; sidewalk slips on ice; analysis of site and building drainage issues contributing to the formation of ice as related to slip accidents.

THE EXPERTS
Robson Forensic

DOUGLAS W. PEDEN, R.A., NCARB
Architect

Premises Safety: Walkway construction and safety; conspicuousness of hazards, effectiveness of warnings, illumination levels, delineation of hazards in parking lots, stairs, ramps, corridors; platforms and level changes, vertical misalignments; walk-off mats; lighting and security.

Snow and Ice: Analysis of site and building drainage issues contributing to the formation of ice as related to slip accidents.

Issues for Special Users: Barrier-free standards, Americans with Disabilities Act (ADA) guidelines, access for persons with disabilities, special requirements for the elderly and children.

Building Safety: Codes, standards; lighting levels and uniformity; unprotected openings in floors and walls; guard rails; glass and glazing.

Security: Site planning and design, site and building exterior lighting, facility planning, door hardware.

Conspicuousness of Hazards: Placement, effectiveness, and illumination of warnings; signage; color and contrast of adjacent materials.

2010 to 2011 **Parsons Brinckerhoff / Aman and Whitney**
Architect/Inspector, Projects for NYC School Construction Authority
Conducted physical condition inspection and prepared written conditions report for the Building Condition Assessment Survey of New York City Department of Education school buildings. Data collected from these reports of 1535 building assets is utilized for determining physical improvements of the school buildings.

2009 **Gannett Fleming Engineers and Architects P.C.**
Project Architect, Projects for Port Authority of New York and New Jersey
Conducted physical condition inspection and prepared written conditions report. Project architect responsible for the architectural and structural rehabilitation of the four ventilation buildings that were rehabilitated between 1995 and 2003. The Holland Tunnel has national landmark status. Rehabilitation included structural repairs to exterior wall, masonry restoration, replacement of large walls of louvers, windows, doors and roofing including reconstruction of the evase stack towers.

2007 to 2009 **San Fanandre Justin Architects P.C.**
Project Manager, Projects for New York State University Construction Fund
Responsible for Waterproofing and Roofing projects on existing buildings.

Project Manager, Projects for Port Authority of New York and New Jersey
Responsible for additions and modifications at various transportation facilities.

Project Manager, Project for NYS Office of General Services
Project Manager responsible for the inspection, report preparation and rehabilitation of masonry facades on buildings at a correctional facility.

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Architect

2006 to **Henningson Durham Richardson (HDR)**

2007 *Project Architect, Various Projects for New York City Transit, New York, NY, MTA*
Responsible for additions and modifications to NYCT facilities.

Project Architect, Various Projects for NYC School Construction Authority
Responsible for exterior façade rehabilitation, upgrades and modifications to various New York City school facilities.

1990 to **Gannett Fleming Engineers and Architects P.C.**

2006 *Project Architect, Various Projects for New York MTA Bridges and Tunnels*

Architect, Value Engineering Investigations for Southeast Pennsylvania Transportation Authority. Philadelphia, PA

Architect, Value Engineering Investigations for Massachusetts Bay Transportation Authority. Boston, MA

Project Architect, Various Projects, NYC Department of Environmental Protection
Project Architect for additions and modifications to valve gate buildings and pumping stations.

Project Manager, On-Call Architectural/Engineering Contract, Various Locations, NY, NYS Thruway Authority

Project Manager responsible for additions and modifications to thruway maintenance buildings, rest areas, and ancillary facilities.

Project Architect, Holland Tunnel, Port Authority of New York & New Jersey
Responsible for the architectural and structural rehabilitation of the four land and river ventilation buildings. The Holland Tunnel has national landmark status.

On-Call Architectural/Engineering (A/E) Services for Shea and Yankee Stadiums, Queens and Bronx, NY, New York City Department of Design and Construction.
Project Manager for on-call A/E services for both facilities.

Project Architect, Croton-Harmon Train Maintenance Facility, Croton, NY, MTA Metro-North Railroad

Project Architect for additions and modifications to maintenance buildings and shops.

Project Architect, George Washington Bridge Intelligent Transportation System Design/Build Project, Fort Lee, NJ, Port Authority of New York & New Jersey

Project Architect, Garden State Parkway Bus Inspection Facility, Herbertsville, NJ, Garden State Parkway Authority

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Architect

Project Architect for a new 11,000-square-foot bus inspection garage and passenger waiting room.

Project Architect, Grass Island Wastewater Treatment Plant Upgrade, Greenwich, CT, Town of Greenwich

Project Architect responsible for construction services for the architectural work on renovations to three buildings. The renovations included restoration of the masonry façade, roof repairs and other rehabilitation work.

Project Architect, World Trade Center, Design of Tenant Office Space, New York, NY, Port Authority of New York & New Jersey

Architect responsible for interior designs and the preparation of contract documents for tenants leasing space in the World Trade Center complex.

1980 to 1990 **Early employment as an architect:** 1) **Perry Goldstein, Architect, PC**, Corporate interiors; banks and banking offices. 2) **John J. Kassner, Inc.**, Consulting engineering; NYC municipal building restorations, NYC municipal truck repair garages. 3) **Shannon Construction**, General contractor; corporate interiors, building alterations.

PROFESSIONAL CREDENTIALS

Registered Architect: Connecticut, New York

PROFESSIONAL MEMBERSHIPS

National Council of Architectural Registration Boards (NCARB)

EDUCATION

B.S. Architecture, New York Institute of Technology, 1980

Additional Training:

Business Analysis Training, Stony Brook University, 2011

LEED Green Associate Study Group, USGBC, 2010

Project Management Training, Penn State University, 2002

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REPRESENTATIVE CONTINUING EDUCATION

Excel Tribometers CXL T Certification Program, November, 2017
Accessibility (ADA) Update, United Spinal Association, April 2017
Drainage and Drying in the Exterior Wall, Benjamin Obdyke, April 2017
Multifactorial Analysis of Slip and Fall Events, ASTM International, January, 2017
Understanding Air Barrier Systems and Design Options, Henry Company, November 2016
Column Options of the 21st Century, HB&G Building Products, October 2016
Solar PV for Engineers and Architects, NY Sun PV Trainers Network, September 2016
Continuous Load Path (Structural), Simpson Strong Tie, July 2016
Optimizing Classroom Acoustics to Overcome HVAC Noise, CertainTeed, June 2016
A Complete Envelope Solution with Insulated Metal Panels, Hanley Wood University,
June 2016
Solar and Geothermal Designs for Zero Energy Building Solutions, AIA Long Island
Chapter, September 2015
Spray Foam Insulation for Commercial Wall Systems, AIA Long Island Chapter,
April 2015
Incorporating Demand Management with Geothermal Heat Pumps and other Renewal
Energy Sources, AIA Long Island Chapter, April 2015
Surface Technologies for Public Health and Safety, SEMCO Modern Seamless Surface, AIA
Long Island Chapter, April 2014
Benefits of Post Frame Building Systems: From Cost Savings to Sustainability, Hanley
Wood University, April 2014
Post Frame Buildings: A Light – Commercial Mainstay, Hanley Wood University,
April 2014
Color Matters – The Relationship between Color and Pigments in Architectural Coatings,
Hanley Wood University, April 2014
Considerations for Advanced Green Façade Design, Hanley Wood University, April 2014
Healthy Indoor Air Quality by Design, Hanley Wood University, April 2014
Advancing Sustainability through Product Performance and Transparency, Hanley Wood
University, April 2014
Sustainable Design for Windows, Hanley Wood University, April 2014
NFPA285 Assembly Test of Exterior Walls with Combustible Components, DuPont Building
Innovations, March 2014
Residential Wall Moisture Management, Dupont Building Innovations, March 2014
Choices of Air Barriers for Commercial Building Enclosure, Dupont Building Innovations,
March 2014
Overview of Exterior Doors, Jeld-Wen, January 2014
Specifying Wood Windows for Historical Renovation and Design, Jeld-Wen, January 2014
Introduction to Deck Design, Simpson Strong Tie, July 2013
Preservative-Treated Wood Using Copper Azole: Arch Treatment Technologies, July 2013
Colloidal Silica: New Technology for Better Concrete: Lythic Solutions, July 2013
Masonry Wall Insulation, Air Barrier, Water Seal and Moisture Vapor Control with ccSPF:
NCIF Polyurethanes, June 2013

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Glass Performance for Today's Building Codes and Designs: Kolbe Windows and Doors, June 2013
Finishing Touches: Enhancements, Options & Trends for Windows & Doors: Kolbe Windows and Doors, June 2013
Moisture Management in Commercial Building Enclosure, Dupont Tyvek, May 2013
The Makings of a Great Sub-Floor: Huber Engineered Woods, May 2013
Building Envelope Technologies for Energy Efficient Designs: Huber Engineered Woods, May 2013
The Trend towards Composite Masonry: A Greener Solution: Azek Building Products, May 2013
Cellular PVC and the Changing Face of Trim Products: Azek Building Products, May 2013
Continuous Insulation and Beyond: Hunter Panels, April 2013
Radiant Heating: Warmboard, Inc., April 2013
Solar Thermal Technologies and their Integration in Building Design: AIA Long Island Chapter, April 2013
Designing Zero Energy Buildings: DCP Continuing Education, Inc., April 2013
Supported Scaffold User Training, Academy for Occupational Health and Construction Safety, OSHA 29CFR 1926.450/ NYC Dept. of Buildings Chapter 33, February 2013
Moisture Management in Sidewall Construction, Benjamin Obdyke, June 2012
The Growth and Design Potential of Fiber Cement Siding, Certain Teed, Saint-Gobain, June 2012
What's New in Lighting & Its Impact on Building Design, AIA Long Island Chapter, April 2012
Update on the Revised ADA / ABA Accessibility Guidelines: United Spinal Association, April 2011
High Performance Weather Barrier Systems for Green Buildings: AIA Long Island Chapter, April 2011
Determining Business Requirements Workshop: Total Systems Education, February 2011
LEED Green Associate Study Group: USGBC Long Island Chapter, September 2010
Building American with Advanced Technology, Machinery & People, The Role of Today's Modern Structure: American Institute of Steel, April 2010
Commercial Stone Veneer Installation Seminar: AIA Long Island Chapter, April 2010
Permeable Interlocking Concrete Pavement, A Storm Water Management Solution: AIA Long Island Chapter, April 2010
Green Affordable Housing: AIA New York Chapter, March 2009
Self-Adhering Membrane Roofing Systems Seminar: Certain Teed Building Solutions, November 2008
Asphalt Shingles Seminar: Certain Teed Building Solutions, November 2008
Cold Liquid Applied Roofing and Waterproofing: Kemper Systems, Inc., July 2008
Building Blocks for Healthy Indoor Air: Ron Blank and Associates, Inc., July 2008
Assuring Water Resistance of Masonry Construction: Ron Blank and Associates, Inc., June 2008
Comparative Study of Wood and Aluminum Windows in Commercial Buildings: Ron Blank and Associates, Inc., May 2008
Controlling Sunlight with Interior and Exterior Sun Shades: Ron Blank and Associates, Inc., May 2008

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Basic Understanding of Retrofit Standing Seam Metal Roof System: Ron Blank and Associates, Inc., May 2008
Fire Rated Doors and Frames: Ron Blank and Associates, Inc., April 2008
SBS Modified Asphalt Roofing and Underlayment Systems: Ron Blank and Associates, Inc., April 2008
Mold/Mildew Resistant Systems: National Gypsum Company, October 2007
Today's Abuse Resistant & Impact Resistant Gypsum Systems: National Gypsum Company, October 2007
Visionary, Designing with Glass Block: Pittsburgh Corning, September 2007
Understanding the UL Fire Resistance Directories: National Gypsum Company, August 2007
Acoustically Enhanced Gypsum Board for High STC Wall Partitions: National Gypsum Company, October 2007
Engineering Quality Assurance / Quality Control Program: HDR University, August 2007
Roofing and Roof Maintenance: RCI, Inc., June 2007
Window Installation Guidelines and Detailing: Traco, May 2007
Restoration – Architecture & Interiors of New Old Buildings: Sir John Soane's Museum Foundation, December 2006
Elevator Technology – The Latest Advancements in Vertical Transportation Systems: Kone, Inc., November 2006
Fire Rated Doors and Hardware: Total Door Co., November 2006
Anchoring – Basic Theory: Hilti, May 2006
Monitoring Project Budgets and Schedules: Earned Value Method: ASCE, June 2005
Speaking: Preparing, Presenting and Following Up to Make Things Happen: ASCE, April 2005
Multi-Purpose Thin Set Mortar Myth: Mapei Technical Institute, May 2003
Fired Canvas Conformity, Harmony in Tile Design & Installation: Crossville Porcelain Stone, May 2003
Feeling Glass, Thinking Agglomerates: Trend USA, May 2003
Tile Specifications – Solving Problems Before They Occur: Tile Council of America, May 2003
A Systems Approach to Tile and Stone: Schluter Systems, May 2003
An Overview of the New NYS Codes: FRA Code Services, May 2003
Smart Growth Summit 2002: American Planning Association Continuing Professional Development Program, September 2002
AutoCAD 2000 – Introduction: L.A. Wilson Technological Center BOCES, May 2002
2000 International Building Code Performing Nonstructural Plan Reviews Seminar: Building Officials and Code Administrative International, Inc., January 2002
Where there's Smoke – Understanding Fire Rated Glazing: Technical Glass Products, November 2001