

MICHAEL TUTTMAN, P.E.
Civil Engineer

PROFESSIONAL EXPERIENCE

2013 to present **Robson Forensic, Inc.**
Associate

Provide technical investigations, analysis, reports, and testimony toward the resolution of commercial and personal injury litigation involving design and construction of roads, municipal facilities, and aquatic facilities, heavy construction and failure analysis.

2013 **Boswell Engineering**, Albany, NY
Civil Engineer/Construction Inspector

Senior Transportation Construction Inspector (NICET III) on NYSDOT Projects.

Responsibilities included: Oversight of work zone traffic control and site safety measures; Assuring compliance of contractor's procedures and work with contract documents, plans and specifications; Estimating quantities; Documenting field conditions; Tracking work completed; Documenting daily work using Site Manager; Field testing of concrete per NYSDOT and American Concrete Institute (ACI) procedures and specifications.

Projects included:

D261910 – Rehabilitation of I-787 Bridges and Ramps at Clinton Ave Interchange
D262026 – Accelerated Bridge Program; Rehabilitation of Rte. 2 over Hudson River
D262135 – Replacement of Rte. 29 over Black Creek
D262350 – I-87/Adirondack Northway Stop Texting Signs Initiative

2009 to 2013 **Greenman-Pedersen, Inc.**, Albany, NY
Civil Engineer

Civil Engineer for consulting engineering company.

Responsibilities included: Design work for transportation, utility, electrical and landscape engineering projects in New York State and Vermont; Designing geometric horizontal and vertical alignment of asphalt concrete and portland cement concrete highways, collector roads, roundabouts, urban streets, intersections, sidewalks and multi-purpose recreation trails; Designing signage and pavement markings in conformance with the federal Manual of Uniform Traffic Control Devices (MUTCD) and New York State supplement; Designing work zone traffic control measures, detours and temporary utility relocations; Drafting plans using AutoCADD and Microstation; Writing contract documents & bid proposals; Developing special specifications; Ensuring conformance with Federal, State and local codes and regulations; Estimating quantities and costs; Coordinating project planning and construction activities with utility companies, railroads, municipalities and interested parties; Preparing engineering calculations; Writing engineering reports; Researching new construction/repair techniques and materials; Reviewing contractor submittals, material certifications and certified payroll reports; Performing field surveys;

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Providing construction support; Performing construction inspections for NYSDOT, municipal and private projects including oversight of work zone traffic control measures, full-depth roadway reconstruction, asphalt concrete “mill & fill” and overlay, storm drain and sanitary sewer construction, utility work, portland cement sidewalk construction, sign and pavement marking installation, landscaping tracking and documenting work completed. Coordination of utility facility locations (including underground piping/conduit and utility poles) with utility companies, municipalities and other interested parties.

Design/Civil Engineering projects included:

Draft Engineering Study of Eroded Slope, University at Albany Foundation Bioscience Development Corporation, East Greenbush, NY
Transportation Improvements (Pedestrian Facilities), New Rochelle, NY
Siena College Pedestrian Connection to NYS Route 9, Loudenville, NY
Replacement of Plank Road Bridge over Mill Brook, Moriah, NY
Rehabilitation of the Albany County Vietnam Veterans Memorial (Landscape Design), Lafayette Park, Albany, NY
Greenspace Zoning Evaluation Report, University at Albany Foundation Bioscience Development Corporation (East Campus), East Greenbush, NY
Foundation Repairs (Historic Brick Building Restoration) – Sunnycroft Building, Willard Drug Treatment Center, Romulus, NY
Port Henry Beach Campground Restoration (Electrical System Design), Port Henry, NY
Traffic Improvements to NYS Route 4 at New Fed-Ex Distribution Center, East Greenbush, NY
D213654 – NYSTA Buffalo Division, Pavement Rehabilitation MP 378 – MP 394, Batavia, NY
Helderberg Hudson Rail Trail, Albany County, NY
County Road 156 (Fuller Road) Corridor Improvements, Albany, NY
Zim Smith Multi-Purpose Trail, Saratoga County, NY

Inspection projects included:

Walkway Over The Hudson – Main Span Structural Steel Modifications, Highland, NY
University at Albany Signage at the Fuller Road/Tricentennial Drive Roundabout, Albany, NY
Traffic Improvements to NYS Route 4 at New Fed-Ex Distribution Center, East Greenbush, NY
County Road 156 (Fuller Road) Corridor Improvements, Albany, NY
Ellsworth Commons Commercial/Residential Project Construction along frontage with NYS Route 9, Malta, NY
D030659 – NYSDOT Region 1 Construction Inspection Term Agreement including:
D261452 – I-87 Paving and Joint Repairs, Warren County, NY
D261195 – Bridge Painting – Rexford Bridge, Schenectady, NY
CR 108 (Dunning St/Plains Rd) Resurfacing, Malta, NY
Shaftsbury Sidewalk Enhancement, Shaftsbury, VT

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2003 to **Aquatic Development Group**, Cohoes, NY
2008 *Project Designer*

Member of design studio working on community pools, natatoriums, indoor and outdoor water parks.

Responsibilities included: Development of waterpark designs from concept drawings to construction documents using AutoCADD; Designing disinfection systems, filtration systems, circulation systems, process piping and water heating systems for pools, water slides, water features, wet-decks and hydro-spas; Performing hydraulic analysis of proposed water circulation systems; Ensuring conformance with health and safety codes; Responsible for applications to State Health Departments for facility licensing; Coordinating designs with water slide and other specialty manufacturers; Specifying pumps, equipment, pool appurtenances and materials; Detailing mechanical, electrical and structural drawings; Estimating quantities & costs; Providing construction support.

Projects included:

Great Escape Indoor Waterpark, Queensbury, NY
Rudy A. Ciccotti Family Recreation Center, Albany, NY
Silver Mountain Indoor Waterpark, Kellogg, Idaho
Greek Peak Indoor Waterpark, Cortland, NY
Kalahari Indoor Waterpark (Phases 1 & 2), Sandusky, Ohio
Kalahari Adventure River, Wisconsin Dells, Wisconsin
Columbus Zoo Outdoor Waterpark, Columbus, Ohio
Hacienda Water Park, Doradro Beach, Puerto Rico
Tornado (Water Slide) Landing Pools at Six Flags New England and The Great Escape, Agawam, Massachusetts and Queensbury, NY

2000 to **Cianbro Corporation**, Pittsfield, ME
2002 *Project Engineer*

Project Engineer for regional heavy construction general contractor.

Responsibilities included: Direct contact and coordination with owners; Negotiating prices; Coordinating work with subcontractors, consulting engineers, fabricators, and suppliers; Writing Subcontracts and Purchase Orders; Processing payments to suppliers and subcontractors; Writing repair and welding procedures; Specifying materials; Reviewing shop drawings; Responsible for project-specific permitting issues; Tracking project budgets and schedules; Estimating work; Drafting plans and shop drawings using AutoCADD; Detailing structural steel; Writing reports; Participating in dispute resolution proceedings; Performing field surveys; Documenting existing and new site conditions; Tracking and documenting work performed; Tracking compliance with Davis-Bacon regulations, Buy American provisions, Labor rules and project E.E.O. goals. Coordination of utility facility locations (including underground piping/conduit and utility poles) with utility companies, municipalities and other interested parties.

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Projects included:

Replacement of Route 9 over Hudson River, Glens Falls, NY (NYSDOT)

Rehabilitation of Moveable Dam 8 at Lock E-12 – Erie Canal, Tribes Hill, NY (NYS Canal Corporation and Thruway Authority)

Deck Replacement of Kingston-Rhinecliff Bridge, Kingston, NY (NYS Bridge Authority)

1999 to **Laberge Group, Ltd.**, Colonie, NY

2000 *Civil Engineer*

Responsibilities included: Working as an Assistant Design Engineer on Wastewater Treatment and NYSDOT/Municipal Transportation Projects for consulting engineering firm.

Projects included:

Reconstruction of NYS Route 2/Congress Street, Troy, NY

Reconstruction of 3rd Street and 3rd Avenue, Rensselaer, NY

Postenkill Gorge Pedestrian Trail, Troy, NY

I-90 Exit 8 Extension Study, North Greenbush, NY

Sanitary and Storm Sewer Additions, East Greenbush, NY

Parking Impact Analysis, Colonie, NY

NYCDEC Town of Shandanken Wastewater Treatment Study

1998 **Wilbur Smith Associates**, Latham, NY

Civil Engineer/Assistant Team Leader

Responsibilities included: Assistant Team Leader for NYSDOT Region 1 Bridge Inspections; Transportation Construction Inspector on NYS Thruway Authority asphalt concrete paving projects.

1997 to **Schultz Construction**, Round Lake, NY

1998 *Project Engineer*

Construction Field Engineer for heavy construction firm.

Responsibilities included: Supervising and tracking emergency field repairs; Writing welding and repair procedures; Documenting field conditions; Coordinating field changes and revisions with owners, fabricators and subcontractors; Tracking and documenting work completed; Documenting force account/disputed work; Preparing demolition/erection drawings; Reviewing bid requirements and project plans; Soliciting and reviewing quotes; Estimating quantities; Assisting with bid & budget preparation; Ordering materials; Reviewing shop drawings and subcontractor's submittals; Serving as liaison to subcontractors; Responsible for submitting required paperwork to owner; Assisting with project mobilization; Producing and submitting project status, E.E.O goal and Davis-Bacon wage reports.

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Projects included:

Rehabilitation of Lock C-4 – Champlain Canal, Stillwater, NY (NYS Canal Corporation and Thruway Authority)

Canal Terminal Wall – Erie Canal, Amsterdam, NY (NYS Canal Corporation and Thruway Authority)

1994 to **Clough, Harbour & Associates**, Albany, NY

1996 *Engineering Technician*

(Summer & Fall) Coordinated NYSDOT & ConnDOT projects (underwater bridge inspection, fathometer surveys, scour evaluations) for consulting engineer firm.

1993 **Proforma, Inc.**

Designer/Model Maker

Responsibilities included: Design and construction of interactive museum displays, including electronic control systems, fiber optic lighting, mechanical effects, wood, plexiglass, and plaster construction; Design and construction of scale, table-top models; Development and prototype construction of motion detection system, and 3 dimensional projection, for an interactive exhibit/game with the participant playing one-on-one basketball with a holograph of Michael Jordan.

Projects included:

Visitor's Center, Moore Dam/Fifteen Miles Falls Hydroelectric Power Project; Riverspark Cohoes Visitors Center; Proposed Interactive Exhibit for the Naismith Memorial Basketball Hall of Fame.

1989 to **LHV Precast, Inc.**

1992 *Designer/Engineer*

Responsibilities included: Design of custom underground precast concrete utility structures, such as box culverts, utility chambers, steam tunnels, pile-cap foundations, and manholes; Drafting of plans and shop drawings; Inside sales; Take-off of quantities from plans; Form design; Concrete mix design; Testing of aggregate, plastic concrete, concrete cylinders, and cores.

Projects included:

Box Culverts for multiple Connecticut Department of Transportation, County and Municipal Projects

Steam Tunnel for University of Massachusetts at Amherst; Storm Sewer Outfall, City of Perth Amboy, NJ

Sanitary Sewer Upgrades in the City of Rensselaer, NY

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1988 to **Clark Checks, Inc.**
1989 *Mechanic*

Responsibilities included: Maintenance and repair of all manner of machinery in a printing factory including printing presses, binders, photographic equipment, and waste disposal unit for used photographic chemicals.

1987 to **Peter Kunz Company**
1988 *Technician/Model Maker*

Responsibilities included: Production of scale models using wood, aluminum, steel, fiberglass, plastics, textiles, foam, and latex; Construction of mechanical rigs including the use of time delay triggering controls, pneumatic and hydraulic actuators; Design, construction, and service of control modules for high voltage equipment (Tesla Coils), Large DC motors (Wind Machines), and small scale AC motors; Servicing of large DC and small AC motors.

PROFESSIONAL CREDENTIALS

Professional Engineer: NCEES, Connecticut, Florida, Georgia, Illinois, Indiana, Louisiana, Maine, Massachusetts, Michigan, Nevada, New Hampshire, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, Texas, Vermont, Washington, West Virginia, Wisconsin
Certified Concrete Field Technician, American Concrete Institute (ACI)

EDUCATION

Bachelors of Science, Civil Engineering, Union College, Schenectady, NY, May 1997
Associate of Science, Math Science/Engineering Science, Hudson Valley Community College, Troy, NY, May 1995
Bachelor of Arts, Vassar College, Poughkeepsie, NY June 1986

Continuing Education

Common Mistakes in Erosion and Sedimentation Projects, The Practicing Institute of Engineering, Inc., 2018
Mock Pipeline Strike, Response Training and Demonstration, DigSafely NY, 2018
2018 Annual Excavator Safety Seminar, presented by DigSafely, New York
Innovative Trenchless Solutions, New York State Society of Professional Engineers, February 2016
Cold Weather Masonry Construction, New York State Society of Professional Engineers, February 2016
The Evolution of Jobsite Sediment Control Technology, New York State Society of Professional Engineers, February 2016

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Execution of a Subsurface Investigation, New York State Society of Professional Engineers, February 2016
How to Mitigate Moisture Problems in Concrete Slabs, New York State Society of Professional Engineers, February 2016
Stormwater Management, workshop given by Cornell Local Roads Program of the Cornell Cooperative Extension, October 2015
Building Construction Site Safety, New York State Society of Professional Engineers, February 2015
21st Century Solutions for 19th Century Sewers, New York State Society of Professional Engineers, February 2015
Risk Assessments of Underground Vaults, New York State Society of Professional Engineers, February 2015
Understanding ADA Specifications, New York State Society of Professional Engineers, February 2015
OSHA 10 Hour Course – Construction Safety and Health ACI Concrete Field Technician Level 1

PROFESSIONAL MEMBERSHIPS

National Society of Professional Engineers (NSPE)
American Society of Highway Engineers (ASHE)
Capitol District Damage Prevention Council (Dig Safely NY)