

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

JOHN R. MESSINEO, P.E., NCEES Civil Engineer

Civil Engineering: Airports, ADA compliant design, sewage treatment plants, water treatment plants, pumping stations, pipelines, office buildings, medical facilities, tunnels, bridges, culverts, parking decks, dams, water lines, sanitary lines, roads and highways, traffic plans and signal operation, plans and specifications review, errors and omissions, geotechnical and subsurface investigations, seismic analysis and investigations, hydrology and hydro geologic investigations, strip mine reclamation, groundwater contamination, surface runoff, drainage, storm water detention and retention, concrete and asphalt pavement failure, Phase I and Phase II environmental studies.

Construction: Pile driving, caissons and drilled shafts, blasting and quarry operations, ADA compliant construction; cofferdams, heavy equipment accidents and productivity loss, rigging and scaffolding failure, solid waste disposal sites, construction inspection and materials testing, trench collapse and shoring, OSHA related workplace safety requirements, foundation underpinning; mechanical, electrical, HVAC and fire protection building systems, masonry and timber construction, asbestos abatement.

Structural Engineering: Foundation settling, floor/wall cracking, building collapse, bridge failure, improper rigging and crane overloading, vibration and blasting damage.

Construction Management: Project constructability analysis, CPM scheduling, construction management, construction cost and time claims, change order negotiation, maintenance of traffic plans.

Gas Station Design and Construction Experience: Designed and constructed joint venture Shell Oil Company and McDonald's gas station/restaurants. This included fueling island layout, design and construction; tank location and installation; pumping station mechanicals; lot layout geometry based on vehicle usage; pedestrian and vehicle pathways related to customer safety issues; canopy design and construction.

Parking Lot and Parking Garages: Designed and constructed parking lots for commercial properties, including gas stations, and restaurants. Constructed a parking garage for health department facility.

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PROFESSIONAL EXPERIENCE

2001 to **Robson Forensic, Inc.**

present *Associate*

Provide technical investigations, analysis, reports, and testimony toward the resolution of litigation involving construction, failure analysis, highway engineering, construction management, structural engineering, airport engineering, and other civil engineering issues.

2001 to **Federal Emergency Management Agency, National Urban Search**
2005 **and Rescue Response System, Ohio Task Force 1**

Structures Specialist

Responsible for evaluating immediate structural conditions of areas and structures affected by emergency and disaster situations. Determine the appropriate type and amount of structural hazard mitigation required to minimize risks to on-site 70 person search and rescue team.

1998 to **H.R. Gray and Associates, Inc.**

2002 *Project Manager*

Construction Manager for completed \$22 million renovation of 130-year-old, 250,000 square foot State of Ohio School for the Blind. Work includes new mechanical, electrical, fire protection, structural and interior renovation to existing six story masonry and timber structure; construction of a new two story, 90,000 sf, structural steel and glass curtain wall addition; and construction of a 300 vehicle two level, precast concrete, parking garage. Completed facility to be occupied by the City of Columbus Health Department and medical clinics.

Onsite Resident Engineer for completed \$20 million infrastructure expansion of Polaris/Maxtown Road Connector, and Cleveland Avenue Extension for the City of Westerville, Ohio. This project included: construction of three multi-span, pre-stressed concrete box beam bridges; construction of seven miles of connecting roads and highways; and construction of underground utilities which included water, electric, communications, traffic, storm, sanitary and a 3000 foot segment of a wastewater treatment plant outfall. Responsible for construction site activities.

Responsible for municipal clients implementation of Federally mandated, American with Disabilities Act (ADA) compliant curb ramps, sidewalks, pedestrian ways and training. Directed contractors and client employees during construction and repair of non-ADA compliant curb ramps and pedestrian ways.

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- 1995 to 1998 **McDonald's Corporation**
Project Manager
Member of fourteen-person regional development team responsible for new construction of 20 restaurants per year and remodeling and maintenance of over 300 existing restaurants for McDonald's' Columbus Ohio Region (Indiana, Kentucky and Ohio). Specific responsibilities included: structural design and building code modifications for regionalized construction drawings; site design; permitting; obtaining building code and zoning variances; construction cost estimating; directed architect's, engineer's, and general contractor's work during construction.
- 1992 to 1995 **The City of Columbus, Division of Construction Inspection**
Engineer III
City of Columbus' Resident Engineer during construction for multi-million dollar Capital Improvement Projects. Projects included: structural steel and pre-stressed concrete, multi-span bridges; road construction; water; sanitary sewer; storm sewer; and traffic utility construction. Directed and supervised construction activities.
- 1991 to 1992 **R.D. Zande and Associates, Ltd.**
Design Engineer
Designed airport runways and taxiways; structural steel and pre-stressed concrete bridges; and roads and highways.
- 1988 to 1991 **Kokosing Construction Company, Inc.**
Project Engineer
Onsite Project Engineer for ENR Top 100 Heavy/Highway General Contractor. Directed construction for \$15 million infrastructure expansion of roads and utilities, including a 4-lane, 1000 foot long, cast-in place concrete, highway tunnel beneath new runways and taxiways for the Greater Cincinnati International Airport; project punch-list and close-out of ODOT's \$40 million Cross-County Highway Project which consisted of 17 bridges and interconnecting highways for Interstate I-75 in Cincinnati, Ohio; \$5 million 150 acre solid waste disposal site and pump station for Cincinnati Gas and Electric Company's Beckjord Power Plant in Cincinnati, Ohio; \$10 million concrete dam and spillway for Ohio Department of Natural Resources' Buckeye Lake which required pile driving, construction of 500 foot coffer dam, and marine construction techniques in an environmentally sensitive state park.
- 1987 to 1988 **John David Jones and Associates, Inc.**
Design Engineer
Prime Design Consultant's Project Supervisor for \$2 ½ million design of the Upper Scioto West Deep Interceptor Sewer for the City of Columbus, Ohio's, Division of Sewerage and Drainage. Specific responsibilities included: directing geotechnical, tunneling and hydro geologic design work; coordination of in-house hydraulic and

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structural design work; consultant's liaison with Division of Sewerage and Drainage staff; and prepare final plans and specifications for construction. The Upper Scioto West Interceptor Sewer was a 6-mile long, 100-foot deep, main-trunk sanitary sewer, constructed using both open face and TBM tunneling techniques; and had a final 1998 construction cost of \$80 million. Engineer in charge during construction modifications to Zanesville, Ohio wastewater treatment plant. Engineer in charge during construction modifications to Mt. Sterling, Ohio water treatment plant.

1986 to **BBC&M Engineering, Inc.**

1987 *Manager of Inspection Services*

Supervised inspectors performing inspections of soil, concrete, and re-steel placement during construction activities. Wrote reports and informed clients whether contractor's placement of soil, concrete, and re-steel were done in accordance with project plans and specifications.

1976 to **P. J. Dick Corporation**

1986 *Project Superintendent*

Project Superintendent for ENR Top 40 Heavy/Highway General Contractor. Supervised construction crews during construction of three major projects:

1. 3 1/2 million cubic yard dam, concrete overflow structure and emergency spillway for American Electric Power's John Amos Power plant in Nitro, W.Va., supervised blasting and quarry operations;
2. site preparation, site utility installation, flood wall construction and construction of a 3 mile long railroad spur for Big Rivers Rural Electric Cooperative's 2000 acre, 440MW D.B. Wilson Power Plant in Centertown, KY;
3. 4 million cubic yard dam for the Allegheny Power Company's Pleasants Power Station in St. Marys, W.Va.

1974 to **Utah International Mining Company, Inc.**

1976 *Heavy Equipment Operator, Lucky Mac Mine*

1975 to 1976

Operated Caterpillar D-9 bulldozers and Caterpillar 657 scrapers during open pit mining operations.

Mine Laborer, Navajo Mine

1974 to 1975

Worked as general mine laborer during strip mine operations.

PROFESSIONAL CREDENTIALS

Professional Engineer: NCEES, Ohio, Michigan, California, Kentucky, North Carolina, South Carolina Pennsylvania, Florida, Tennessee, Illinois and New York

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EDUCATION

B.S., Civil Engineering, Ohio University, 1986

Training and Certifications

OSHA 10 Hour Construction Safety Training, Lancaster, PA, 2006

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers

Committee on Forensic Practice

American Water Works Association

American Concrete Institute

International Society of Explosives Engineers

Engineers' Club of Columbus

Building Construction Appeals Board for the City of Dublin, Ohio

Past Board Member

Planning and Zoning Commissioner for the City of Dublin, Ohio

Past Commissioner

EXPERT NOT RETAINED