

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

JOSEPH F. CAPO, P.E.
Civil Engineer

PROFESSIONAL EXPERIENCE

2008 to present **Robson Forensic, Inc.**
Associate

Provide technical investigations, analysis, reports, and testimony towards the resolution of litigation involving design, buildings, construction, and personal injury claims involving commercial, industrial, institutional and residential construction.

Delivery Methods of Construction Projects: Over 30 years of experience in Design-Bid-Build, Design-Build, Multi-Employer, Construction Management, and Project Management type construction projects. Over 20 years of full time on-site field experience.

OSHA Construction Safety/ Accidents: OSHA compliance, General Safety and Health, Personal Protective Equipment, Fire Protection, Signs and Barricades, Material Handling, Scaffolding, Fall Protection, Excavation, Concrete and Masonry Construction, Steel Erection, and Demolition issues.

Building /Construction: Standard of Care, Defects, Failures, Disputes, and Claims:

- Pre-Construction/Construction: Code compliance, bid documents, plans & specifications, Architect/ Engineering/ Inspection and Testing Agency coordination, constructability review, budget estimating, value engineering, CPM scheduling & analysis, scope of work, contract agreements, cost & time claims, coordination of trades, estimating
- Structural design & analysis: Concrete, Masonry, Steel, Wood
- General Requirements: Temporary construction & facilities, erosion & sedimentation control
- Site work: Demolition, shoring, underpinning, piles, piers, caissons, soils, earthwork, grading, pavers, sidewalks, concrete pavements, asphalt pavements, plazas, trenches, utilities, retaining walls, foundation drains
- Concrete: Formwork, reinforcing bars, post-tensioned concrete, cast-in-place concrete, precast concrete, shoring, falsework, embeds, inserts, anchors, expansion bolts, concrete foundation, concrete slabs, slab-on-grade, basement walls
- Masonry: Mortar, concrete masonry units (block), brick, stone, reinforcing, lintels, flashing, scaffolding, shoring, falsework, brick veneer, basement walls, chimneys
- Metals: Structural steel, steel trusses, steel joist, bar joist, steel deck, metal fabrications
- Wood: Connections & fasteners (bolts, screws, nails), wood framing, wood decking, wood trusses, roof trusses, timber construction, timber trusses, prefabrication wood beams & joist, rough carpentry, finish carpentry

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- Thermal & Moisture Protection: Waterproofing & dampproofing, insulation, roofing, siding, flashing, sealants & caulking, fireproofing, roof accessories, ventilation, downspouts & gutters
- Doors and Windows
- Finishes: Gypsum board (drywall), tile, acoustical ceiling, flooring
- Special Construction: Pre-engineered metal buildings, bleachers

Project Experience: up to \$135 million:

- Commercial Office Buildings, Office Interiors, High Rise to Low Rise Buildings, Retail & Shopping Centers, Medical Offices & Hospital Expansion, Historical Renovations, School Expansion, Bank, Warehouse, Daycare Center, Concrete Parking Garages, Courthouse, Juvenile Detention Center, University Offices & Sports Training Facility, Multipurpose Building, Condominium Shell, Bulk Material Handling Systems, Mineral Process Plants, Electrical Transmission Lines, Electrical Substations, Mixed-use Facility, Residential.

2005 to 2007 **The Stonehenge Company**, Gahanna, Ohio
Senior Project Manager

Gahanna Creekside Mixed-use Facility; \$55 million: (two parking garages - 216,000 sf, two office/retail buildings - 92,000 sf, condominium/retail building - 175,000 sf and associated sitework.

Responsible for estimating, pre-construction, scheduling, project management & administration, and field supervision on a mixed-use development project. Asbestos abatement; environmental subsurface abatement; demolition; slurry wall; reinforced concrete underground parking garage (97,000 sf, 240 cars), post-tensioned reinforced concrete parking garage (105,000 sf, 300 cars); condominium/retail building, 19,000 sf retail, 153,000 sf (71 condos), 4-story reinforced concrete frame, brick/stone veneer/stucco; two 3-story office/retail buildings, 87,000 sf structural steel buildings with masonry core and brick veneer/stucco; park; plaza; lagoon; street utilities.

2004 **Hanlin Rainaldi Construction Corp.**, Columbus, Ohio
Project Manager

Responsible for contracts, scheduling, project management & administration, field monitoring.

- Project Manager: Ohio State University Offices and Batting Cages - 12,000 sf - \$1.2 million, two-story steel framed with pre-stressed concrete planks, masonry veneer, metal studs.
- Project Manager: Berry Bolt Works "Historical Renovation," Columbus, OH - 35,000 sf - \$1.8 million, masonry and wood framed building, metal stud interior walls, asbestos abatement.

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- Project Manager: Max Sports Medical Office Interiors, Columbus, OH - 11,500 sf - \$545,000 – interior construction, offices, exam rooms, x-ray room, work-out room, and toilet rooms.

1999 to 2002 **Dugan & Meyers Construction Services**, Columbus, Ohio
Senior Project Manager & Estimator

Responsible for pre-construction services, estimating, pre-planning, preliminary structural design, contracts, scheduling, project management & administration, cost control, fulltime field supervision.

- Sr. Project Manager: AEP Parking Garage, Columbus Ohio - \$13 million – 7-story (350,000 sf, 1000 car) post-tensioned concrete parking garage, precast concrete and curtainwall exterior, sitework, elevated pedestrian bridge.
- Estimator: various general construction, design/build and construction management commercial type projects.

1996 to 1999 **Continental Building Systems**, Columbus, Ohio
Project Manager

Responsible for estimating, contracts, scheduling, project management & administration and field monitoring.

- Project Manager: Ohio Moline Plow Historical Renovation/Resource Marketing, Columbus, OH – 75,000 sf - \$6 million - reinforced concrete structure with brick exterior, interior office space, new hydraulic elevator.
- Project Manager: Easton Market (Kittle's/Thomasville, Designer Shoe Warehouse, PetsMart, Zany Brainy, Sun TV), Columbus, OH - 220,000 sf - \$3.8 million – interior tenant construction.
- Project Manager: Bob Sumerel Tire Co., Dublin, OH - 4,650 sf - \$450,000 – single-story, metal stud framed, brick veneer, wood truss roof, sitework, asphalt parking lot.
- Project Manager: Sun Center Expansion (Rhodes Furniture, Stein Mart, Aquarium Authority, Old Navy), Columbus, OH - 106,000 sf - \$4.2 million – single-story structural steel building with split faced block exterior, EPDM and metal roofs, sitework, interior finishes, asphalt paving.

1990 to 1996 **Romanelli & Hughes Building Company**, Columbus, Ohio
Project Manager/Estimator/Superintendent

Responsible for estimating, value engineering, scheduling, project management & administration, and field supervision.

- Noah's Ark Learning Center, Sunbury, OH - 5,000 sf - \$400,000 - single-story, wood framed structure with brick veneer & vinyl siding, wood roof trusses, shingle roof, sitework, asphalt parking lot.
- Westshire Office/Medical Building, Westerville, OH - 15,000 sf - \$1.6 million - two-story, wood framed structure, with brick veneer, wood roof trusses, shingle roof, site work, asphalt parking lot.

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- Worthington Park Shopping Center Expansion, Columbus, OH - 20,000 sf - \$650,000 – single-story steel structure with masonry exterior, EIFS, and sitework.
- St. Paul's School Expansion, Westerville, OH - \$125,000.
- CPA Office Building, Columbus, OH - 5000 sf - \$525,000 - single-story, wood framed structure with brick veneer, wood roof trusses, shingle roof, parking lot.
- Sunbury Medical Building, Sunbury, OH - 10,000 sf - \$700,000 - single-story, wood framed structure with brick veneer, wood roof trusses, shingle roof, x-ray room.
- St. Ann's/Mount Carmel Medical Building, Gahanna, OH - 10,000 sf - \$700,000 – single-story, wood framed structure with brick veneer, wood roof trusses, shingle roof, asphalt parking lot.
- Linworth Lumber Warehouse, Columbus, OH - \$250,000 - pre-engineered steel building with large timber storage shelves.
- Celeste Center (State of Ohio Fairgrounds), Columbus, OH - 80,000 sf - \$6 million - pre-engineered steel building with concrete masonry and metal panel façade, metal roof, cupolas, stage, bleacher-type seating, toilet facilities.
- Estimator: various general construction and design/build commercial construction projects.

1985 **Capo Residence**

Design/build residence - conceptual design through final construction completion.

1977 to **Dugan & Meyers Construction Company**, Cincinnati, Ohio

1990 *Senior Project Manager/General Superintendent/Project Engineer*: Columbus, Ohio
Responsible for pre-construction services, estimating, contracts, scheduling, project management & administration, fulltime field supervision.

- Sr. Project Manager: Franklin County Juvenile Detention Center/Parking Garage, Columbus, OH - \$20 million, 110-bed juvenile detention center, 550-car parking garage.
- Sr. Project Manager: Franklin County Courthouse (High-rise), Columbus, OH - \$65 million – 27-story high-rise, reinforced concrete and structural steel structure with precast concrete curtainwall exterior.
- Sr. Project Manager: State Automobile Insurance Pavilion (Low-rise), Columbus, OH - \$25 million.
- General Superintendent/Project Manager: Vern Riffe Tower/Parking Garage (High-rise), Columbus, OH - \$135 million – 1,000,000 sf, 32-story structural steel structure with precast concrete (granite inlay) exterior, 400-car parking garage, 850-seat multi-purpose auditorium.
- Project Engineer/Project Manager: Huntington Center (High-rise) / Parking Garage/Tenant work, Columbus, OH - \$100 million – 1,000,000 sf, 37-story structural steel structure with granite exterior, 6-story (1020-car) post-tensioned concrete parking garage.

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- Project Manager: Huntington Center, tenants include Columbus Capital Club; Porter, Wright, Morris & Arthur; Schottenstein, Zox & Dunn; Schwartz, Kelm, Warren & Rubenstein; Huntington Bank.
- Mechanical/Electrical Coordinator: Deaconess Hospital Expansion, Cincinnati, OH - \$8 million.
- Contract Manager: Bulk Material Handling and Process Systems Projects - Texas Mining Sand Processing Plant (Voca, TX); Island Creek Coal Company River Terminal (Wheelersburg, OH); Central Silica Sand Processing Plant (Millwood, OH); Martin County Coal Facility, (Martin County, KY) - up to \$15M.
- Contract Manager: Inez Deposit Bank, Inez, KY - \$350,000.
- Area Manager: Marketing/Sales/Estimating of various construction projects.

- 1975 to 1977 **Heyl & Patterson, Inc.**, Pittsburgh, PA
Assistant Project Manager: Homer City, PA
Responsible for coordination, quality control, field supervision, and monitoring scheduling for a large, state-of-the-art coal preparation plant and bulk material handling systems. Project included concrete foundations, structural steel, bins, hoppers, coal thermal dryers, equipment, pumps, motors, process piping, electrical power and controls, silos, clarifiers, and conveyors.
- 1974 to 1975 **ENI Engineering Company**, Monroeville, PA
Structural Design Engineer
Structural design of various coal preparation plants and bulk material handling systems. Design of steel building, conveyors, hoppers and bins, concrete foundations, concrete tunnels.
- 1971 to 1974 **Allegheny Power Service Corporation**, Greensburg, PA
Project Design Engineer/ Field Engineer
Structural design of various high voltage electrical transmission lines and substations. Field engineering inspector on a high voltage transmission line and substation. Design of steel, aluminum, and wood structures; concrete foundations. Field testing of concrete.
- 1969 to 1970 **West Penn Power Company**, Greensburg, PA
Co-op for the Civil/ Structural Design Department of electric utility company.
- 1961 to 1968 *Mason Tender and Carpenter Helper, Western Pennsylvania*
Various hands-on construction project experiences in the residential and light commercial construction. Masonry laborer, mixing mortar, mortar & brick hod carrier, spreading mortar for brick mason, striking joints, facing natural stone, erection and dismantling of scaffolding, general carpentry, and demolition.

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PROFESSIONAL CREDENTIALS

Registered Professional Engineer: NCEES, Ohio, Pennsylvania, Kentucky, West Virginia, Michigan and Indiana

EDUCATION

B.S., Civil Engineering, West Virginia University, 1971

Seminars:

Construction Law Fundamentals: Managing Project Risk, 2009
OSHA – 10 hour course, 2008 (latest)
OSHA – 30 hour course, 2001
OSHA – 8 hour Competent Person, Trenching & Excavation, 2001
Timberline Precision Estimating Extended, 1999
Cornell University- Concrete Materials short course, 1987
CPM Scheduling, Contracts and Construction Claims, 1981
Geotechnical Technical Review, 1980
Construction Law, 1979
Inryco Building Institute: Pre-Engineered Metal Buildings – Graduate of, 1978
Inryco Building Institute: Pre-Engineered Metal Buildings – Marketing Building Systems, 1978
Penn State University - Coal Preparation Fundamentals short course, 1975

Continuing Education:

Design of Unreinforced Masonry Compression Members, 2009
What do Engineering and Architects need to know about the new OSHA Safety Standard for Steel Erection, 2009
Petrographic Analysis of Concrete Deterioration, 2009
Glulam Basics, 2008
APA Performance Rated I-Joist Basics, 2008
Mass Concrete Structures, 2008
Cementitious Materials, 2008
Design/Construction of Grouted Reinforced Masonry, 2008
Light Gauge Steel Trusses, 2008
Lateral Earth Pressure, 2007
Professional Ethics for Engineers, 2007
Wood Connection Design Theory, 2007
The 5 levels of Finishing Gypsum Board, 2007

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (ASCE)
Structural Engineering Institute (SEI)