

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

RICHARD C. KREPPPEL, P.E. Geotechnical & Structural Engineer

PROFESSIONAL EXPERIENCE

2009 to **Robson Forensic, Inc.**

present *Associate*

Provide technical investigations, analyses, reports, and testimony towards the resolution of commercial and personal injury litigation involving geotechnical and structural engineering principles and failure analyses in building, railway, heavy highway and bridge construction industries.

2008 to **Genesis Engineering LLC**

present *Principal*

Create practical, cost effective design solutions for clients. This has developed into a focus on temporary structures and support systems for contractors as needed in bridge construction including temporary sheeting, shoring, shielding, staging, jacking, demolition, erection and structures. Also provide clients with bridge design, rehabilitation, dam restoration and other heavy highway project designs.

Projects include:

- Railway Structures
- Highway Structures
- Dam Safety and Stabilization
- Commercial Building Alterations
- Modular Buildings and Foundations
- Pile and Shallow Foundations
- Retaining Walls and Stability
- Temporary Steel and Timber Structures
- Steel Erection Rigging and Cranes
- Soil Boring Programs and Foundation Evaluations
- Alternative Construction Sequencing
- Utility Relocations

2001 to **Medina Consultants, P.C.**

2008 *Project Manager & Project Administrator, Director of Operations*

Responsible for many levels of duties for the firm including development of project management cost accounting, a company project management manual, updates for the company QA/QC manual, growth from two offices in NJ to seven offices in four states, mentoring of engineering staff, and technical guidance on all bridge and geotechnical projects of the firm. Assignments related to highway and railroad bridges, parking garages, geotechnical design reports for site development projects, precast culverts, historic bridge rehabilitations and unique structures such as trusses, arches and precast concrete.

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Projects included:

- Railway Planning and Parking Garages
- Residential Developments
- Hospital Sites and Parking Garages
- Pile and Shallow Foundations
- Pile Type Selections
- Residential and Commercial Building Redevelopment
- Design Budgeting, Scheduling and Planning
- QA/QC Evaluations
- Value Engineering
- Construction Staging
- Utility Relocations
- Alternative Foundation Designs
- Soil Boring Programs and Reports

1996 to **Lichtenstein Consulting Engineers, Inc.**
2001 *Project Manager & Project Director*

Director of the New Jersey office of the firm responsible for all its engineering and management operations. Continued with Project Manager duties on specific projects and provided direction for all matters relating to geotechnical design of highway and railroad bridge projects, small dam rehabilitations and historic structure restorations. Expanded to bridge projects in the Midwest and involved many historic restoration assignments.

Projects included:

- Historic Structures
- Arches and Trusses
- Steel and Prestressed Concrete Highway and Railroad Bridges
- Bridge Rehabilitations
- Timber Structures
- Rail Stations
- Value Engineering
- Alternative Designs for Construction Staging
- Precast and Modular Retaining Walls
- Pile and Shallow Foundations
- Dams and Spillways
- Slope Stability
- Soil Boring Programs and Reports
- Construction RFI Resolution

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1973 to **A.G. Lichtenstein & Associates, Inc.**
1995 *Project Manager, Senior Associate* 1985-1995

Provided oversight of major bridge projects in the New Jersey office. Responsibilities included management of project budgets, preparation of proposals and company representation. Remained hands-on with staff in coordinating the details of bridge design, rehabilitation and rating projects and became involved with assignments in numerous other states across the country.

Senior Project Engineer 1978-1984
Design Engineer 1973-1977

Instrumental in the technical design and plan preparation of numerous bridge replacement and rehabilitation projects throughout New Jersey. Involved with the inspection of existing bridges and rating their load carrying capacity. Provided inspection of soil test boring programs for construction projects and prepared the foundation design for all of the company's bridge projects. Became an Associate in the firm in 1978.

Projects included:

- Prestressed Concrete Bridges and Culverts
- Steel Bridges
- Bridge Inspection and Rating
- Foundation Designs and Alternatives
- Pile Foundations
- Shop and Working Drawings Reviews

PROFESSIONAL CREDENTIALS

Professional Engineer: New Jersey, Delaware

EDUCATION

M.S., Geotechnical Engineering, New Jersey Institute of Technology, 1976
B.E., Civil and Structural Engineering, Stevens Institute of Technology, 1973

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PRESENTATIONS

Presenter, "Rehabilitation of Dorset Avenue Bascule Bridge," Heavy Movable Structures Conference, Tampa, FL, 1997.

Presenter, "Substructure Redesign for the Broadway Bridge Replacement," AASHTO National Value Engineering Seminar, Atlantic City, NJ 1997.

Presenter, "Development of Timber Rail Bridge Railing System for TL2 Crash Test," AASHTO Conference, Philadelphia, PA, 1996.

Adjunct Lecturer, "Consultant's Role in Civil Work," Stevens Institute of Technology, 1995, 1996.

EXPERT NOT RETAINED