Project Engineer
Alta Engineering, Ltd.

Lawrence E. Taylor

OBJECTIVE

My objective as a Project Engineer is to provide our clients with excellent professional service for achieving the unique goals and needs that develop during the design of every project, etc..

PROJECT EXPERIENCE

- Design responsibilities include development of construction drawings for commercial, industrial, municipal, and institutional structures utilizing steel, reinforced concrete, masonry, wood and precast systems.
- Design of lateral force resisting systems including braced and moment frames using various tools.
- Expert knowledge of current building codes such as UBC, BOCA, IBC, ACI and ASCE-7 to meet client expectations and furnish code compliant structures.
- Design of bar joist roof and floor systems with precast bearing wall systems utilizing flexible diaphragm/shear wall lateral force resisting systems.
- Design of deep foundations using H piles and drilled caissons for single and multi-story construction. Caisson analysis considering both gravity and lateral loads using p-y curves.
- Design of floor systems using composite design, one-way slabs, and flat plates using ADOSS. Concrete deck on bar joist systems with vibration analysis considerations. Precast hollow core systems w/structural and non-structural toppings.
- Project engineer responsibilities include direct client interaction to maintain schedules and meeting deadlines during all phases of the project.
- Design of wood framed structures using both shear walls and steel frames for lateral load resisting systems. Roof systems including rafters and ceiling joists, engineered trusses, open web joists (wood and steel). Microllam, glulam beams, posts, and columns.
- Aluminum bleacher systems design for the development of prototype calculations
- Aluminum Curtain wall design.
- 8 story precast floor plank and masonry bearing wall residential retirement center including masonry shear wall design and second story load transfer steel frame system.
- Precast wall panel and steel roof structure warehouse buildings

PROFESSIONAL REGISTRATION

- Section I IL-S.E. – Section II Pending

PROFESSIONAL AWARDS

- 1996 STRUCTURAL ENGINEERS ASSOCIATION OF IL. Award for the participation in the significant contribution to the conception, design and construction of the award winning project ST. MARY IMMACULATE CHURCH OF PLAINFIELD IL.

EDUCATION

Professional 5 year degree Bachelor's of Architecture in Structures, University of Illinois
Equivalent to an Architectural Master's Degree U of I /Champagne, Urbana, IL

Related Courses	• Steel Design	• Matrix Analysis	• Soil Mechanics
	• Concrete Structure Design	• Pavement Design	• Foundation/Retaining Structure Design
Special Skills	• RAM	• AutoCAD 2004	• Revit Structure
	• Risa Floor	• EnerCalc	• RISA 2/3D
	• PCA Mats	• ADOSS	• ADAPT PT