

# Civil Engineering Technology

## EXPERIENCE

### Managing Principal (1996-present)

- Manage everyday activities of the firm along with other directors.
- Plan and execute weekly scheduling of engineering work for technical staff.
- Interview and hire new employees along with other directors.
- Review financial data and make financial decisions.
- Write proposals for new projects.
- Participate in design team interviews.
- Provide structural engineering services on a variety of designs for architects, engineers, industry, contractors, and owners.
- Prepare structural construction documents including plans and specifications to meet model code requirements for a variety of buildings and miscellaneous projects.
- Investigate existing structures and write reports.
- Review staff engineers' work and check designs.
- Direct staff engineers on structural design of projects.
- Coordinate structural services with clients for interdisciplinary work among architects, engineers, owners and contractors.

### CET 475 (experience related with course objectives)

- Provided computer-assisted and manual calculations for structural engineering design on numerous private, residential, commercial, institutional, government, and educational projects to meet model building code requirements.
- Prepared information and sketches for CAD operators to develop CAD structural documents including steel, concrete and timber framing plans, structural sections and details.
- Edited CAD construction documents for changes as required.
- Prepared structural specifications for structural projects in MasterSpec format.
- Trained staff engineers in structural design and development of structural construction documents.
- Checked computer designs, manual calculations and CAD drawings of staff engineers.
- Provided structural services and developed computer-assisted construction documents for numerous power utility projects.
- Developed structural documents for repair and rehabilitation of historic projects for adaptive reuse.
- Prepared engineering designs for structural steel framing, reinforced concrete, reinforced and plain masonry and timber construction documents.
- Provided computer-based design with structural software for steel, concrete and timber.
- Attended American Institute of Steel Construction design seminars.

### Partner (1986-1996)

- Managed everyday activities of the firm along with other partners.
- Planned and executed weekly scheduling of engineering work for technical staff.
- Interviewed and hired new employees along with other partners.

- Reviewed financial data and made financial decisions.
- Wrote proposals for new projects.
- Participated in design team interviews.
- Provided structural engineering services on a variety of designs for architects, engineers, industry, contractors and owners.
- Prepared structural construction documents including plans and specifications to meet model code requirements for a variety of buildings and miscellaneous projects.
- Investigated existing structures and wrote reports.
- Reviewed staff engineers' work and checked designs.
- Directed staff engineers on structural design of projects.
- Coordinated structural services with clients for interdisciplinary work for architects, engineers, owners and contractors.
- Researched CAD software and hardware for firm purchases.
- Received CAD training at Republic Research in Fundamentals of AutoCAD.
- Determined CAD needs for firm and arranged for purchase of first CAD station, plotter, and CAD software in 1989.
- Developed hand-drawn structural construction documents including framing plans, foundation plans sections and details for structural steel, concrete, and timber structures.

#### **CET 475 (experience related with course objectives)**

- Provided computer-assisted and manual calculations for structural engineering design on numerous private, residential, commercial, institutional, government, and educational projects to meet model building code requirements.
- Prepared information and sketches for CAD operators to develop CAD structural documents including steel, concrete and timber framing plans, structural sections and details.
- Edited CAD construction documents for changes as required.
- Prepared structural specifications for structural projects In MasterSpec format.
- Trained staff engineers in structural design and development of structural construction documents.
- Checked computer designs, manual calculations and CAD drawings of staff engineers.
- Developed structural documents for repair and rehabilitation of historic projects for adaptive reuse.
- Researched and purchased CAD software, hardware for firm.
- Prepared hand-drawn construction documents including framing plans, foundation plans, sections and details for structural steel, concrete and timber structures.
- Attended American institute of Steel Construction design seminars and American Concrete institute seminars.

#### **Professional Engineer (1983-1986)**

- Responsible for structural design of numerous private, residential, commercial, institutional, government and educational projects to meet model building codes.
- Provided structural analysis for steel framing, concrete and timber structures for numerous buildings and miscellaneous projects.
- Made site visits during construction to observe status of project.
- Did field Investigation of existing projects to determine structural condition.
- Developed documents for adaptive reuse projects.
- Prepared specifications for projects.
- Sketched framing plans, foundation plans, sections and details to be hand-drawn by draftsmen.
- Prepared hand-drawn sketches and drawings for structural documents.

- Passed professional engineering exam in 1983.

#### **CET 475 (experience related with course objectives)**

- Responsible for structural design on numerous private, commercial, institutional, government and educational projects.
- Developed information and sketches for hand-drawings to be prepared by draftsmen.
- Edited hand-drawn structural documents.
- Provided engineering design for projects including steel framing, concrete and timber.
- Attended structural design seminars for steel, concrete, masonry and timber design.

#### **Engineer-in-Training** (1979-1983)

- Responsible for structural design of numerous private, residential, commercial, institutional, government and educational projects, under the direction of registered professional engineers, to meet model-building codes.
- Provided structural analysis under the direction of registered professional engineers for steel framing, concrete and timber structures for numerous building and miscellaneous projects.
- Sketched framing plans, foundation plans, sections and details to be hand-drawn by draftsmen.
- Prepared hand-drawn sketches and drawings for structural documents.
- Passed Engineer-in-Training exam in 1979.

#### **CET 475 (experience related with course objectives)**

- Responsible for structural design, under the direction of registered professional engineers, on numerous private, residential, commercial institutional, government and educational projects.
- Developed information and sketches for hand-drawings to be prepared by draftsmen.
- Edited hand-drawn structural documents.
- Provided engineering design for projects including steel framing, concrete and timber.
- Attended structural design seminars.

#### **Engineering Technician** (1975-1979)

- Responsible for structural design of numerous private, residential, commercial, institutional, government and educational projects under the direct supervision of registered professional engineers.
- Developed construction documents for steel framed, concrete and timber structures for numerous buildings and miscellaneous projects.
- Hand-drafted steel, concrete and timber construction documents including framing plans, foundations, sections, details and general structural notes.
- Prepared for engineering registration through a combination of courses and professional experience.

#### **CET 475 (experience related with course objectives)**

- Responsible for structural design, under the direction of registered professional engineers, on numerous private, residential, commercial, institutional, government and educational projects.
- Prepared structural framing plans, foundation plans, sections and details for numerous

- projects.
- Provided hand-drawn structural construction documents for various clients.

#### **Engineering Technician** (1974-1975)

- Responsible for structural design of numerous private, residential, commercial, institutional, government and educational projects under the direct supervision of registered professional engineers.
- Developed construction documents for steel framed, concrete and timber structures for numerous buildings and miscellaneous projects.
- Hand-drafted steel, concrete and timber construction documents including framing plans, foundations, sections, details and general structural notes.
- Prepared for engineering registration through a combination of courses and professional experience.

#### **CET 475 (experience related with course objectives)**

- Responsible for structural design, under the direction of registered professional engineers, on numerous private, residential, commercial, institutional, government and educational projects.
- Prepared structural framing plans, foundation plans, sections and details for numerous projects.
- Provided hand-drawn structural construction documents for various clients.

#### **Engineering Technician** (1972- 7974)

- Provided preliminary designs of comfort shelters for recreation facilities and schools.
- Designed Public Works' title block for drawings.
- Designed interior finishing projects for tenth floor of City Hall.
- Provided ink-on-vellum drawings for road projects.
- Researched City road surface materials and distances.

#### **CET 475 (experience related with course objectives)**

- Developed preliminary designs of wood, steel and concrete projects
- Prepared hand-drawn construction documents for buildings and road projects.