

J. SHAH, P.E (NEVADA,TEXAS), P.ENG.(CANADA), INTPE

Edmonton, AB • Phone 1 587 974 6152, Email –keltd1967@gmail.com

CAREER OBJECTIVE

To join a dynamic team where I can continue to conceptualize, plan & develop designs as a Structural Engineer in order to increase business growth, safety and improve services.

HIGHLIGHTS OF SKILLS

- **25+ years** of solid work experience in resolving Engineering & Construction challenges in a prompt manner including economy and projects completion on time.
- Provided Design engineering services for Oil & Gas facilities, Paper Mills, Mine facilities, Industrial and commercial buildings, Hangar, Blast resistance structures.
- Effective problem-solver and provided structural engineering analysis & design solutions in
- Conventional Cast steel & Stainless-steel framed structures, Rigid frame buildings, Prefabricated Buildings, Skid mounted buildings, Pipe rack & Equipment modules, steel connections and concrete structures including static and dynamic foundations (up to 15000 rpm).
- **Structural design in Steel, Concrete, Wood & composite materials (Steel & Aluminum) .**
- **Working knowledge of CSA 23.4, S16-09 (S14), W47.1 & W59, S136, AISI S200, ASCE/SEI 7, AISC 325- 14th (LRFD), AISC 341-10, ANSI/AISC 358, ACI 318, IBC, NDS (wood), Euro Codes.**
- **FEA (STAAD.PRO), Dyna-6, quality checks.**
- Prepared man hours estimate for the complete scope of work, **Sign and Seal structural IFC drawings for Canada (ON,SK,AB,BC,MB) and USA.**

AREAS OF EXPERTISE

- | | | |
|------------------------------------|--------------------------|------------------------|
| ❖ Steel Structural and Foundations | ❖ Continuous Improvement | ❖ Team Player Skills |
| ❖ Resolving Complex Challenges | ❖ Excellent Work Ethic | ❖ Business Development |

WORK EXPERIENCE

SENIOR STRUCTURAL ENGINEER

March 2016 -October 2018

Metal Buildings, AB.

Industry - Oil & Gas , Industrial, Green Field.

- Structural design for Conventional steel rigid frame and pre-Engineered Buildings (Electrical & Process Buildings), skid mounted buildings (with moving Loads), Fire & Blast resistance Steel Buildings, including Steel connections design for bolted and welded.
- Managed the design of the Building to positively differentiate it from the competition.
- **Sign and Seal IFC drawings (# 554 Buildings & Skids for Alberta, British Columbia, Saskatchewan, Manitoba and USA), Manufacturing certificates A660 (#373) and confirmation letters. Issued building permit schedules A,B & C (#77)**
- **Performed engineering for proposals (#100). Issued structural design calculations for 41 Buildings.**
- Composite design in Steel, aluminum & wood sections.
- **Used Staad.pro and Microsoft Excel.**

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SENIOR STRUCTURAL ENGINEER

SAGA Engineering , Edmonton, Alberta

May 2014 -December 2015

Contracts

Industry - Oil & Gas , Commercial, Industrial, Green Field.

- Provided the structural engineering for Commercial facilities & Industrial facilities including steel connection design for welded and bolted connections.
- Analyzed and designed in Steel and concrete, Sign and Seal IFC drawings for Airport Hangers, Commercial Building, Dynamic foundation for 15000 rpm for Gas Processing facility in B.C.
- Managed requests for design changes, clarifications, and technical/engineering issues with the clients/subcontractors.
- **Sign and Seal IFC drawings for Alberta, British Columbia and Ontario.**
- Provided field review and inspections for concrete and structural steel erected members.
- **Used Staad.pro, Dyna-6 and Microsoft Excel.**

SENIOR STRUCTURAL ENGINEER

Sherritt International Corporation (Fort Saskatchewan, Alberta)

August 2013 – April. 2014

(Contract)

Industry - Heavy Industrial (Metal Refinery) , Brown Field

- Provided the structural engineering of Brown field projects at their operating facility (**cobalt and nickel refinery**).
- Analysis of large steel buildings for assessment and replacement of corroded structural moment frames
- Provided Analysis & Design of Rigid framed and conventional Steel buildings, large tank foundations, Pipe Rack, operating platforms, heavy lift beams etc (also reviewed structural design by external engineering contractor) including welded and bolted steel connection designs.
- Structural design of material conveyor and support structures for elevated tanks.
- **Designed in Cast steel, stainless steel and concrete, Sign and Seal IFC drawings, scopes, Project documents EWP.**
- Offered technical guidance for the activities of 3rd party consultant engineering contractors as required.
- Participated in interface meetings construction, design reviews, technical impact and/or review meetings with construction, development, production and other groups.
- **Used Staad.pro, Dyna-6 and Microsoft Excel.**

SENIOR CIVIL-STRUCTURAL ENGINEER

Bantrel (Calgary, Alberta)

October 2011 – March 2013

Industry - Oil & Gas Facilities. Green Field

- Designed steel framed Flare structure, Equipment module, pipe rack, operating plate forms, static & dynamic foundations (Forebay water retaining structure with turbine and pumps) for Cooling water pump house, raw water treatment & Natural Gas module for **Suncor Voyageur Project**. Full Analysis of in place, lifting, transportation for equipment module,) including welded and bolted steel connection designs.
- Reviewed pipe rack and foundations, designed pile foundations for **Conoco Philips – Surmont 2** Project – SAGD, Static & dynamic foundations, pile foundations.
- **Sign and Seal IFC drawings.**
- Participated in interface meetings construction. Participated in design reviews, technical impact and/or review meetings with construction, development, production and other groups.
- Mentored Junior Engineers, provided guidance and supervision to the CSA designers in close coordination with Department manager.
- **Used Staad.pro, Dyna-6 and Microsoft Excel.**

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SENIOR STRUCTURAL ENGINEER

November 2010 – October 2011

WSP (Genivar Inc., Thunder Bay, Ontario)

Industry - Heavy Industrial (Pulp & Paper, Mining), Green Field & Brown Field.

- Designed Structures in steel and concrete for paper mills & Mining. Projects worked, Meadow Lake Pulp (Saskatchewan), Abitibi Bowater (ON), Terrace bay (ON), Mussel white Mine (ON).
- Design includes steel framing, Static & dynamic foundations, pile foundations,) including welded and bolted steel connection designs.
- Resolve filed issues i.e. pile locations, fabrication issues.
- Reviewed structural design for mine building & foundations at Piccadilly (Nova Scotia).
- **Sign and Seal IFC drawings for Saskatchewan, Ontario & Nova scotia.**
- Participated in interface meetings construction. Participated in design reviews, technical impact and/or review meetings with construction, development, production and other groups.
- Mentored Junior Engineers, provided guidance and supervision to the CSA designers in close coordination with Depart manager.
- Composite design in steel & concrete.
- **Used S-Frame, Staad.pro, Dyna-5 and Microsoft Excel.**

STRUCTURAL ENGINEER

January 2009 – October 2010

Kena Engineering Inc./Self Employed (Toronto, Ontario)

(Contracts)

Industry - Light Industrial, Commercial , Residential, Green Field

- Worked as a Structural Engineer with Accent Building Sciences Inc., Toronto, On, SDI Drafting , Edmonton., Mastrodicasa Engineering Ltd., Woodbridge, On, Yoon & Associates engineering Ltd., Toronto, On., and other small engineering firms.
- Designed steel structure for strip mall. Designed foundations for Low rise buildings (River valley project – 9 buildings, Toronto), including retaining wall foundations including snow, wind & seismic analysis, welded and bolted steel connection designs.
- Wood building design. Steel Structural Modifications for industrial & commercial buildings.
- Steel Structural review & report of roof framing for Solar panel installation.
- Reviewed shop drawings for steel structure connections. Sign and Seal IFC drawings.
- **Used Staad.pro, Risa 3 D and Microsoft Excel.**

ENGINEER

December 2006 – December 2008

Enbridge Inc. (Edmonton, Alberta)

(Contract)

Industry - Oil & Gas Pipeline and Facilities, Green Field

- Design review of civil & structural scope of work for Oil pipeline & facilities for Line 4 Extension & Alberta clipper projects.
- Provided technical support for civil & structural design, bids, permits, construction of pipeline and facilities.
- Coordinated fabrication of pipe racks and supports, structural steel modules and buildings, provided support to tender analysis, developed scope, estimates, schedules.
- Ensured Engineering contractors comply with Technical specifications, procedures.
- Participated in interface meetings with project managers and construction.

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CIVIL-STRUCTURAL SPECIALIST

November 2004 – November 2006

Industry - Transportation, Commercial., Green Field.

AECOM (Mississauga, Ontario) & Carruthers & Wallace Ltd.(EXP Inc.), Toronto.

- Review drawings for constructability for Reinforced concrete framed buildings for Transit facilities.
- Field review of Structural arrangements and inspections, including welded and bolted steel connection designs.
- Reviewed Engineering design for transportation structures including buildings, stations and bridge design for engineering and constructability.
- Reviewed specifications & contract documents.
- Directed the detail design structural engineers through the technical Contractual obligations.

CIVIL-STRUCTURAL SPECIALIST

October 2003 – October 2004

Industry - Commercial

HMO Ltd. (New market, Ontario)

- Designed Site and Grading plan drawings as per Ontario Building Code.
- Road intersection design, designed storm water management.
- Structural design checks for building.
- Prepared report for ESA phases I & II, Request for Proposals.
- **Used Auto Cad , Risa 3 D, MS EXcel**

ADDITIONAL ACCOMPLISHMENTS

Civil-Structural Project Engineer

Welspun Industries (MSK Projects India Ltd.), India.

Sept. 2001- Jan 2003

Industry - Roads & Bridges.

- Design review of four lane RCC Bridge, Aqueduct & Box culvert as per IS codes.
- Reviewed Engineering design for transportation structures including buildings, bridges, culverts, hydraulic studies including composite Reinforced concrete sections.
- Reviewed contract documents, specifications, quality documents.
- Prepared design estimates for road work including crossings, bridge etc.
- Review drawings for construction including and shop drawings prior to construction.
- Review and analyze the project scheduling and cost reports and suggest corrective actions to maintain the project within anticipated cost and schedule.
- **Used Staad.pro, MS Excel, MS Project.**

Civil – Structural Project Engineer

Larsen & Toubro Ltd, India.

Feb. 1995 to Aug. 2001

Industry - Power Plants.

- Worked for gas based 100 MW combined cycle power plant facility.
- Physibility study, Structural design review for civil & structural works for equipment foundations, turbine building, fire water pump house, switchyard foundations, including composite design for reinforced concrete with FRP reinforcements.
- Prepared specifications, EWP and CWP documents, Execution plan etc.
- Review drawings for construction and vendor drawings prior to construction.
- Lead the project team and maintain to ensure effective flow of work.
- Prepared subcontractor packages including scope, terms and conditions, negotiated agreement for

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submission.

- Coordinated requests for design changes, clarifications, and technical/engineering issues with the clients/subcontractors by RFI's.
- Participate in the hiring process of new technical service specialists.
- Review and analyze the project scheduling and cost reports and suggest corrective actions to maintain the project within anticipated cost and schedule.
- Used Staad.pro ,Microsoft Excel, MS Project.

Civil-Structural Execution Engineer

Nila Engineering & Construction Co., India.

July 1991 to Jan. 1995

Industry - Oil & Gas Refinery, Industrial, Infrastructure

- Design review, Execution, QA/QC for complete structural framing of Rail loading Gantry & foundations for Refinery.
- The job was consisted 360 meter long Gantry structure including temporary barricading using pile foundations , plant road of 3.6mtr carriage road with 0.60 meter side shoulders, storm water drain, RCC underground pressure pipes.
- Review drawings for construction including isometrics and vendor drawings prior to construction.
- Prepared cost estimates for any scope changes/trends.
- Lead the project team and maintain to ensure effective flow of work.
- Reviewed and analyzed the project scheduling and cost reports and suggest corrective actions to maintain the project within anticipated cost and schedule.
- As built Drawings.

FORMAL EDUCATION

- ❖ Bachelor in Civil Engineering (4-Year Degree)
Successfully completed in 1991,
- ❖ Registered Professional Member with - Engineers Canada, NVBOE, TBPE, AISC,ASCE.

References Available Upon Request