

PROFESSIONAL PROFILE SUMMARY

NAME:	Charlie Chen	CREDENTIALS:	P.Eng(AB,BC),M.Sc(UBC)
CORPORATE TITLE	Civil/Structural Engineer	ADDRESS:	13231 104a ave. Surrey,BC, V3T 1Y6
HOME PHONE	604-588-8795	CELL PHONE	778-235-5447 or 604-352-4517

INDUSTRIES WORKED IN:

1. Oil and Gas
2. Mining (gold)
3. Forestry (OSB mill, sawmill)
4. Residential and commercial buildings (especially new houses)
5. Cement manufacturing

EDUCATION HISTORY:

GRAD YEAR	UNIVERSITY	LOCATION	DEGREE
2003	UBC	B.C.	Master of Engineering in Structural Seismic
1991	Hohai University	China	Master of Science in Structural
1988	Zhejiang University	China	Bachelor in civil/structural engineering

MEMBERSHIPS:

- APEGBC
- APEGA

LIST OF RELEVANT SKILLS:

- Wood framed house structural engineering service(more than 200 houses experience)
- Main steel pipe racks design
- Foundation design of inlet facilities, gas dehydration and compression, refrigeration and product storage, and gas gathering systems
- Foundation design of vessels, tanks, heat exchangers, flare stacks and coolers
- Cost estimating/cost reduction
- Steel and concrete specifications and constructability
- Material selection
- Design for modularization pipe racks
- Preparation of construction packages/bid evaluations
- Thorough working knowledge of ASME, CSA, ANSI and API standards
- Analysis with STAAD or SFRAME,DYNA 6,SAP2000 program
- Edit office files with Excel and Word effectively
- Familiar to the operation of ACAD,Navisworks,Prosteel,Autoplant under 3D environment
- Shop drawings review,vendor's drawing review,field review & field issue disposition
- Prepare design notes,documentation to satisfy QAQC

SUMMARY OF WORK EXPERIENCE:

Twenty-two (22) years experience as a structural engineer with over six (6) years in the Oil and Gas industry for EPCM projects. Extensive knowledge of the structural design and construction of Oil and Gas,forestry,mining and structural industry, including pipe rack design, vessel and equipment building support foundation design, wood framed house design, support structures for equipments in OSB mill,saw mill,mining projects, field review and field issue disposition. Prime Oil and Gas assignments were Cabin Phase 1 Gas and 2 Plants, Water Resource Hub Facility Phase 1&2 with Encana Canada Ltd., compress and metering stations with Nexen,Nrgreen,Altagas,and Apache.

DETAILED WORK EXPERIENCE:**BUILDSPACE Engineering Structure Inc., Surrey, B.C. Senior Structural Engineer/Director, May 2015-Present**

→new house structural design, existing house alteration and addition.

→Steel shop drawing review, connection design

Projects:

- New houses in lower mainland.
- Steel shop drawing pre-review for SONIC STEEL LTD (Project: Centennial Sec. School, Langley,B.C)

Solaris Management Consultants Inc., Surrey, B.C., Structural Engineer/Engineer On Record, Oct 2009 - Apr 2015

- Prepare structural design criteria, pile bearing capacity document, foundation and steel general notes
- Prepare preliminary MTO (material take off estimate)
- Review vendor's drawings
- Collaborate with stress engineer, piping designer and electric engineer to design foundation, steel superstructure with STAAD program and manual calculation
- Prepare sketches and design notes
- Back check drawings, provide mark-ups and issue drawings in accordance with project specifications and quality control procedures
- Piling tracking, field issue disposition

Projects:

- EnCana Cabin-1, Design Engineer
- EnCana Cabin-2, Design Engineer
- NRGreen, Whitecourt Power Station, Design/Check Engineer
- Nexen ETSHO North Facility Expansion, Design Engineer
- Alta Gas Farmington Terminal, Design Engineer
- EnCana Water Resource Hub phase 1 & 2, Design Engineer
- Westport Power Cable Support, Design Engineer
- Nexen Liard North 1 Compressor, Design/Check Engineer
- EnCana 15-27 Compressor Station, Check Engineer
- Apache Liard d-28-b Dehy Well Site Facility, Design Engineer

Fraser Valley Engineering, Abbotsford, B.C., Structural Design Engineer/Engineer On Record, May 2009 - Oct 2009

- New house design
- Existing house timber structure design for addition, alteration and retrofit
- Field investigation and inspection

KTC Panel Board Engineering, Surrey, B.C., Structural Design Engineer/Engineer On Record, Sep 2008 - Jan 2009**Project:**

- TSI ORIS OSB Plant, Russia

Axxent Engineering (presently All North Engineering, previously UMA Engineering), Surrey, B.C., Structural Design Engineer/Engineer On Record, May 2008 - Sep 2008**Project:**

- Taseko Mines LTD, Prosperity Gold Mine, Williams Lake, B.C.

Anthony Seaman Ltd, North Vancouver, B.C., Structural Design Engineer, Jul 2007 - May 2008**Project:**

- Adams Lake Lumber Ltd., Sawmill, B.C.

KTC Panel Board Engineering, Surrey, B.C., Structural Design Engineer, Aug 2005 - Jul 2007**Projects:**

- Norbord OSB Plant, Cordele, GA, USA
- Tolko OSB Plant, Slave Lake, AB

Mainland Engineering Corporation, Surrey, B.C., Structural Design Engineer, Oct 2003 - Aug 2005

Residential, commercial, industrial, projects in timber, steel, masonry, concrete (especially in tilt-up structure)

Landmark Group Homes, Calgary, AB, Home Plan Designer, Mar 2002 - Aug 2002

Customer home plan design

Zhejiang Urban and Rural Comprehensive Design Ltd, Hangzhou, China, May 1991 - Jun 2001

Senior Structural Engineer, Vice Principal Engineer

Five (5) years (1991-1996) experience in cement manufacturing line design

Five (5) years (1996-2001) experience in residential, commercial buildings with concrete (especially in high rise building) and masonry

PUBLICATIONS:

→7 structural professional papers were published in China.

→1 structural professional paper was published in Canada.