|  |  |
| --- | --- |
|  | **1801 – 1225 Richard Street**  **Vancouver BC V6B 1E6** |
| **Peter Lazarescu, M. Sc., P. Eng** | **C – 604-366-9153**  **Tel/Fax 604-681-0970**  plazarescu@shaw.ca |

|  |
| --- |
| **PROFESSIONAL ATTRIBUTES** |

Acknowledged as an experienced and successful Structural Engineer and Project Manager with a highly regarded track record in British Columbia, Alberta, Ontario, Manitoba, USA and Europe. Acknowledged as an outstanding Department Manager, Design Engineer, Resident Engineer, Contract Administrator and Project Manager.

Specialized skill sets:

* Masters level in training in structural engineering
* Strongly motivated by practical application of engineering
* Fluent in three languages
* Demonstrated computer skills
* Entrepreneurial strengths include resourceful problem solving and negotiating
* Lead projects from concept to implementation
* Detail oriented, design efficient, innovative, priority driven, logical
* Performs well against deadlines, handles rapid changes easily, cost conscious & quality focused

|  |
| --- |
| **WORK EXPERIENCE:** |

**IYINISIW MANAGEMENT 2015 - present**

**Vancouver, British Columbia**

***Lead Civil/Structural/Architectural Engineer***

* Manage and Technical Supervise Civil, Structural and Architectural Department
* Draft civil/structural section of all proposals
* Conduct technical audits for all projects and insure that all found deficiencies are corrected in a timely manner
* Conduct Civil/Structural engineering department performance review and development plan.
* Review and approve all the documentation received from procurement department and the invoices for civil structural construction contractors.
* Design or review the most important elements of the structures.
* Projects executed by the office in this period of time are: O2D, VE and OVI upgrades at Howe Sound Pulp and Paper facilities in Port Mellon, BC and CTO upgrade for MacKenzie Pulp Mill Corporation in MacKenzie, BC.

**Achievement:**  All projects have been completed in the estimated time and budget to the full satisfaction of the clients.

**BC HYDRO 2013 – 2016**

**Vancouver, British Columbia**

***Consultant Civil/Structural Project Engineer – Part Time***

* Civil/Structural Project Engineering Support for Ceakamus Generators Replacement Project.
* evaluation of the NDT subcontractors capabilities based on the proposed equipment
* input in bid evaluation of the turbine suppliers

**Peter Lazarescu, M. Sc, P.Eng. 2**

**BC HYDRO – continued**

* + subcontractor laboratory reports review..
* preparation of contracts for subcontractors
* structural assessment for the slab in service bay.
* Civil/Structural Project Engineering Support for Bridge River Transformers Uprade Project.
  + feasibility studies for new transformers locations and geotechnical report review for best type of foundations.

**ECO-TECHNICA**

**Edmonton, Alberta 2013 – 2015**

***Senior Consultant Civil/Structural Engineer-Contract – Part-Time***

# Design, Design Supervision and Project Management for industrial facilities upgrades.

# Project work includes;

# design for new monorails and tank supports at TransAlta generations facilities upgrades at AltaSteel facilities upgrades

# studies for economical costs and reliability for different supporting systems of new transformers

# design for new transformers supports at AltaSteel facilities upgrades

# economical assessment of possible structural systems on upgrades and repairs for Sherritt International Fort Saskatchewan facilities

# design supervision on upgrades and repairs for Sherritt International Fort Saskatchewan facilities

# management of the construction subcontractors involved in upgrades and repairs for Sherritt International Fort Saskatchewan facilities

**Achievement:** All projects were completed in the estimated time and on budget resulting in a minimal impact to production.

**SNC LAVALIN 2012 – 2113**

**Vancouver, British Columbia**

***Chief Civil/Structural/Architectural Engineer***

* Manage and Technical Supervise Civil, Structural and Architectural Department of Mining and Metallurgy for the Vancouver SNC Office
* Draft civil/structural section of all proposals
* Conduct technical audits for all projects and insure that all found deficiencies are corrected in a timMely manner
* Business Development, meeting with potential clients..
* Civil/Structural engineering department performance review and development plan.
* Projects executed by the office in this period of time are: Luna Gold (Gold Mine Project) in Brazil, Veduga (Gold Mine Project) in Russia, Prairie Creek ( Gold Mine Project) in North West Territory, Canada and Kumtor (Gold Mine Project) in Kirghizstan

**Achievement:**  All projects have been completed in the estimated time and budget to the full satisfaction of the clients.

**Peter Lazarescu, M. Sc, P.Eng. 3**

**BC HYDRO 2007- 2012**

**Vancouver**, **British Columbia**

***Senior Engineer***

* Detail design, technical assistance and construction management for upgrades and improvements of BC Hydro facilities
* Bid evaluation of engineering subcontractors of BC Hydro facilities
* Bid evaluation of construction contractors of BC Hydro facilities
* Design change approval if necessary during construction.
* Project work includes;
* design, technical support and construction management for new spillways and new debris barriers at Buntzen
* Upgrades of draft tube platforms at Mica and GMS facilities, dam upgrades at Elko and Clayton Falls facilities
* New underground concrete stairwell access at Goldbridge facility
* Upgrade of debris boom at GMS facility
* Sluice gates retrofit at Clayton Falls facility
* Spillway bridge capacity evaluation at GMS, Mica and Buntzen facilities
* New dam access at Mica facility
* New platform equipment supports, lifting devices, equipment foundations at many BC Hydro power plants
* The projects also include penstocks upgrades, as well as structural retrofits and upgrades for numerous BC hydro power plant buildings

**Achievement:** All projects were completed in the estimated time and on budget in coordination with the schedules of generation facilities resulting in a minimal impact to energy generation and no impact to consumers.

#### **WARDROP ENGINEERING 2006-2007**

**Vancouver, British Columbia**

***Senior Structural Engineer***

* Complete a detailed feasibility study and estimation for Yukon Zinc (Yukon) and Techumseh Chief (British Columbia) projects
* The projects include;Primary and secondary crushing facilities as well as processing units (The study provides a detailed estimate in the 10% range as well as a value engineering in which each structure is evaluated in concrete and steel to find the material and structural combination which is most appropriate to the client)
* Detailed design for Kisledag (Turkey) and Yamana Gold (Honduras) gold mines production facilities upgrade
* The Kisladag expansion consists of a new maintenance steel facility with cranes on a raft foundation. The design conforms to the International Building Code and European steel and concrete codes. The design met the requirements of the Canadian Codes.
* The Yamana Gold upgrade included designs of new bins, equipment support structures and all other necessary yard structures. The structures are designed to conform to Canadian Codes and are verified to meet the U.S. Codes.

**Achievement:** All the projects were finished on time and budget. The design received the high appreciation from the client and the construction team.

**Peter Lazarescu, M. Sc., P.Eng. 4**

#### **FLUOR CANADA 2005-2006**

**Vancouver, British Columbia**

***Lead Structural Design Engineer***

* Detail design supervision for Primary Crusher, Morenci Concentrator Start – Up, Phelps Dodge Morenci Inc, Morenci, Arizona
* Design check and supervision for expansion of Processing Plant for BHP Billiton Diamonds Inc., North West Territories, Canada

**Note;** The project includes alteration of the existing structure to the new process requirements. An important part of the assignment was the evaluation of the existing structure. The sequence of construction operation which insure a minimum production closure time and in the same time confer adequate safety and stability of the existing structure during the structural alterations has been a challenging task very well accomplished by the design team.

* Detail design supervision for Ore Handling Area of Safford Leach Project, Phelps Dodge Safford Inc. Safford, Arizona

**Note; T**he ore handling area consists from primary crusher, the reclaim tunnel, secondary-screening facility, the facility for secondary and tertiary crusher as well as the supports for conveyors and electrical lines, substations and access routes in this area.

**Achievement:** All projects are completed and the completion milestones were achieved in time and below the estimated budget to the complete satisfaction of the clients.

#### **WESTMAR ENGINEERING CONSULTANTS 2005**

**North Vancouver, B.C.**

***Senior Structural Engineer***

* Detailed design supervision for Wolverine Processing Plant and miscellaneous yard structures, Wolverine Coal Mine in Tumbler Ridge, British Columbia

**Note;** The structure as well as the individual structural members has been analyzed for dynamic operational loads. The main challenge was to keep the concrete quantities at minimum possible because of the high price and difficulty of concrete production on site. Because of site condition and distance, procurement of concrete from an existing plant was considered impossible.

**Achievement:** In spite of the time constrains and site difficulties the project is in time and below of the estimated budget. The adopted solutions have received high appreciation by the client’s team.

**FLUOR CANADA 2004 – 2005**

#### **Calgary, Alberta**

#### ***Senior Structural Engineer***

#### Conceptual and detailed design, engineering design study and material take off for Horizon Project, CNRL industrial facility

#### **Note;** The structures include industrial buildings, process facilities, pipe racks, basins, equipment foundations and miscellaneous yard structures. A difficult challenge was to keep the anchor points bellow the specified operational deflection without using heavy and expensive supports.

**Achievement:** The project has been completed on time and the chosen solutions brought the budget bellow the initial estimated value.

**Peter Lazarescu, M. Sc., P.Eng. 5**

#### **DUKE ENERGY 2002-2003**

**Vancouver, B.C.**

***Senior Structural Engineer***

* Conceptual and detailed design of new structures as well as structural rehabilitation for gas industry

**Note;** The structures include building for compression station and yard structures.

**Achievement:** All the structures meet the specifications and are completed on time, below the estimated budget and are fully operational and successfully integrated in the previous gas distribution grid.

#### **SNC-LAVALIN 2002**

**Edmonton Alberta**

***Senior Consultant Structural Engineer/Discipline Sub-lead***

Conceptual and detailed design, cost analyses, material take off as well as construction work packages for special industrial facilities for **Syncrude UE 1** expansion as well as cost analyses.

**Note;** Projects include cap cooling tower basin, compressors and turbines foundations, new industrial building and addition to existing industrial buildings, new blast proof buildings and addition to existing blast proof buildings as well as the analyses of an existing barge for new loads. In addition of the regular design the cap cooling tower basin was analyzed as an environmental structure for crack opening. The new blast proof building and the addition to the existing blast proof buildings have been analyzed for impact load resulted from a possible explosion.

**Achievement:** All the projects are approved by the client engineering team. Dead lines are met and the requirements came in below the estimated budget. The implemented engineering solutions minimize the construction costs and shorten the construction time.

#### **TECTONIC ENGINEERING P.C., 2000 - 2001**

# **New York, USA**

# ***Senior Structural Engineer/Design Coordinator***

* Perform the conceptual design, coordination of the structural department
* Review the structural design of junior and intermediate engineers for additions and rehabilitation of old buildings and new structures in New York City and suburbs
* Coordinate and review structural designs, specifications and engineering reports
* Provide structural solutions for client approval on new or modified structures
* Interact with the clients in order to satisfy there needs for new structural work..

**Note;** Projects include industrial, commercial, institutional and high rise residential buildings as well as water towers, smoke stakes, utility towers, telecommunication supports, silos, tunnels and retaining walls.

Many structures have top elevations between 30 – 400 ft above grade, and the concepts/materials used in the initial design of rehabilitation/additions of existing structures match the concepts and technology used from early 1800’s to late 1990’s.

**Achievement:** Projects met dead lines and came in below estimated budgets.

**Peter Lazarescu, M. Sc., P.Eng. 6**

## **SPECTRA-TELECOM 1999 - 2000**

**Vancouver, BC**

***Senior Structural Engineer/Project Manager***

* Conceptual and detail design, structural evaluation, field reviews and inspection and construction management for equipment and antennas supports used in wireless communication sites in British Columbia and Alberta
* Obtain all the required permits from the municipalities, other government agencies and properties owners for modifications and upgrades necessary for wireless communication installation.

**Note;** Design foundations, retaining structures, structural supports, wave-shielding walls, evaluation and necessary alterations of the existing structures on which such supports will be installed, field inspection and construction management for all site installations.

Other aspects of projects include structural analyses for ancillary buildings, water tanks, silos, towers and utility poles.

**Achievement: T**he projects met all specifications, and were completed on time and below the estimated budget.

#### **BAYER INC. 1998 - 1999**

**Sarnia, Ontario**

***Senior Structural Engineer/Consultants Coordinator***

* Perform design, review of consultants’ conceptual designs and compliance with building codes
* Provide project management assistance for industrial buildings and structures (Bayer facilities in Chemical Valley, Sarnia, Ontario)
* Design foundations for industrial equipment, structures for industrial buildings, piping supports, tanks, retaining structures, small dams, industrial towers, water treatment facilities, a dock, and all other industrial facilities necessary for their plants
* Review compliance of the design, construction materials and procedures as per Bayer requirements

**Achievement:** Use concrete, steel, brick or wood (except on a small earth dam), all projects met requirements and were completed on time and budget.

#### **CIMARRON - STONE & WEBSTER ENGINEERING 1995 - 1998**

**Alberta**

***Structural Engineer***

* Design compression and after-cooler stations as well as yard structures for TCPL

**Achievement:** All stations met all requirements at a minimum cost on tight deadlines.

**Peter Lazarescu, M. Sc., P.Eng. 7**

|  |
| --- |
| **EDUCATION** |

**Master of Civil Engineering - Structural**

Technical University, Cluj, Romania 1989

**Safety and Reliability of Construction**

**Structural Dynamics**

Swiss Federal Institute of Technology, Zurich 1993

**Structural Dynamics**

**Earthquake Engineering**

University of British Columbia 1996

|  |
| --- |
| **PROFESSIONAL ASSOCIATIONS** |

**Registered Professional Engineer** – BC, AB and ON

**Registered Member of American Concrete Institute** - Farmington Hills, Michigan

**Registered Professional Member** - Concrete Reinforcing Steel Institute, Schaumburg, Illinois

**Registered Design Professional Member** - The American Forest & Paper Association’s American Wood Council, Washington, D.C.

**Professional Engineer Consultant**, Cluj, Romania

**Award: Advanced Studies in Engineering** - by the Swiss Federal Institute of Technology