

PROFESSIONAL SUMMARY**ISIDRO LLOVIA***Applicant: Quantity Surveyor/Estimator*

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Email: isidro.llovia@gmail.com**SUMMARY OF EXPERIENCE**

- More than twelve (12) years variety of experience in construction industry as Construction Coordinator, Field Engineer, Quantity Surveyor/Estimator, QC/QA and Turnover walkdown coordinator.
- Major Projects completed to include **Oil Sands Mining, Gas Plant, SAGD**, Balance Cantilever Bridges, Elevated Tollway, Highway and **Hydro EarthFill Dam** (current) projects.
- Twelve (12) years of experience in Civil/Structural/Architectural Design and drafting for Plant Facilities of Oil & Gas EPC(M) such Petrochemical, Fertilizer, SAGD, Oilfield Trans-Loading Railway and gathering pipeline projects.
- Ability to read and interpret design plans, specifications with good working knowledge of design/construction codes/standards (CSA, ACI, AISC, ASTM), OHSA, Alberta Transportation Highway and Roadside Design Guide, Road Construction, Bridges and Structures technical guidelines.
- Proficient with various 3D design modeling and 2D drafting engineering software's to include Plant Design System (PDS), AutoPlant, ProSteel, CADWorx,, NavisWorks for structural and AutoCad /Microstation for 2D drafting. Essential training on InRoads & Civil 3D for Civil works.
- Proficient in Microsoft Office programs (MS Access, Excel, Word, Project and PowerPoint), and knowledge in ESRI's ArcGIS Desktop 10.5.1
- Excellent communication skills, a team player, pro-active, strong interpersonal skills, self motivated combined with sound judgement and initiative. Received leadership, commitment and contribution award from Fort Hills Secondary Extraction project .

EDUCATION

- **Bachelor of Science in Civil Engineering**, Mapua University – Nov. '92, Manila, Philippines
 - Equivalent to four-year Bachelor of Science degree in Civil Engineering in Alberta, Canada, recognized by International Qualification Assessment (**IQAS**) - Alberta
 - United States Educational Equivalent, a four-year Bachelor of Science degree in Civil Engineering from an accredited US university.

Skill Development:

- Associate member – Canadian Institute of Quantity Surveyors (CIQS)– working towards Construction Estimator Certified (CEC)
- Bachelor of Applied Technology Geographic Information Systems(BGIS) – Jan.~April 2018 1st Semester Postgraduate, SAIT, Calgary, Alberta
- CIVIL 3D 2015, SAIT, Calgary, Alberta – October 2014 to December 2014
- AVEVA – PDMS 3D - Basic and Advanced Structural Design – May 2012
- **Capital Cost Estimating & Contingency in Process Industry** – AACEI Calgary – Feb. 2012
- **Success in the Workplace** (Certificate) – Bow Valley College – March 2010 – June 2010
- **Bentley 3D AutoPlant** (2004) / **3D ProSteel** – Vista Projects, Calgary, AB – June 2008/2010
- **Respectful Workplace** – Fluor Canada, Calgary, AB – 2007
- Bentley InRoads 8.2, Fluor Canada, Calgary, Alberta - 2006
- **Intergraph PDS Frameworks Plus** course, Fluor Canada, Calgary, Alberta - 2006
- **Project Management Workshop**, Colt Engineering, Calgary, Alberta, June 2006

RELATED EXPERIENCE:

Company : **PRHP (Peace River Hydro Partners) – Acciona Infrastructure Canada & Samsung C&T Canada, Ltd.**
 Project : **Site C Clean Energy Project (Hydro Dam), Fort St. John, BC**
 Client : **BC Hydro (BCH), BC**
 Position : **COST CONTROL - QUANTITY SURVEYOR – April 2018 – Present**

BC Hydro's Site C Clean Energy Project will be a third dam and hydroelectric generating station on the Peace River in northeast B.C. It will provide 1,100 megawatts (MW) of capacity, and produce about 5,100 gigawatt hours (GWh) of electricity/year, enough energy to power the equivalent of about 450,000 homes/year in B.C.

- Prepares detailed quantity take-offs from IFC drawings, variation of orders and survey reports.
- Review of specifications, method of measurement, contract and contract appendices.
- Prepares monthly application of payment with backup documents to support the progress of works claims such as as-built drawings, quantity estimate, sketches, RFI/NCR resolutions, turnover, quality reports, and etc.
- Coordinate with construction managers, field engineers, quality inspector, surveyors, laboratory, engineering and drafting team in the development of plans to acquire progress quantities.
- Closely work with cost control team to track and evaluate cost and earned value performance.
- Verification of work progress through regular site inspection/walkdown to review and validate the reported installed quantities, production, track changes, and monitor the project progress.
- Identify variances and provide quantity estimate to commercial team to facilitate change order.
- Prepare month end quantity report including forecast on various measurable/non-payable items and integrate the data into cost control quantity master file.
- Generate monthly report of major materials, fuel usage and each forecast for client reporting.
- Utilize Civil 3D to evaluate survey data and compute earthworks quantities (cut/fill) to support monthly claims, estimates, and as-built drawings.
- Process rock support (shotcrete/pins/drains/dowels) survey data to produce back up drawing.
- Attend daily construction coordination and weekly Cost Control group meetings.
- Software Tools: NavisWorks , Civil 3D 2018, Autodesk Recap, Trimble

Company : **Sunlake Co. Ltd. (SK E&C Overseas Subsidiaries)**
 Project : **Fort Hills Secondary Extraction Project - Construction Phase**
 Client : **SUNCOR ENERGY**
 Position : **- Civil Works (Early Works) – April 2015~June 2015**
 - Module Construction Coordinator – July 2015~June 2017
 - Field Engineering Coordinator – July 2017~January 2018

The Fort Hills oil sands mining project will be developed as an open-pit truck and shovel mine. The project is planned to mine & process 110 million tons of oil sand per year, yielding an average of 180,000 barrels/day of bitumen at full production. Project Phase – Construction

Civil Works (Early Works)

- Closely works with sub-contractors on various earthworks activities e.g. site grading, construction of roads, drainage, underground utilities/pipes and manholes to ensure no interface conflict with pile driven work and for work safety.
- Conducted pile construction monitoring installation, inspection and pile driving analysis (PDA) as per quality plan and driving criteria.
- Provided QC/QA piles material inspection to ensure in conformance with design standard requirements and specifications; prepares quality assurance records and deficiency (if any).
- Coordinated piling activities schedule including review of progress of works against planned; RFI's resolutions and prepares daily accomplishment of works.
- Conducted progressive quality inspections for concrete pile cap foundation, backfilling/compaction works.
- Coordinated construction/turnover walkdown, prepare punch list and review turnover documents per Suncor standard for scope of work contract closure.

Module and Heavy Lift Coordinator

- Worked closely with sub-contractor's coordinators, QC/QA, other disciplines, Safety, Construction Management and Leadership team to achieve project goals and deliverables.
- Participated in Readiness for Construction reviews and daily construction round-up meeting.
- Work closely with module assembly yard sub-contractors and Logistic team in Edmonton on modules priorities due for shipment to site laydown according to lifting sequence and schedule.
- Provided QC/QA inspection of modules delivered to ensure in conformance with plan & design; prepares quality assurance records, punch list, deficiency and non-confirming reports (NCR).
- Implemented modules and heavy equipment installation sequence based on lifting schedule and monitor progress against planned.
- Prepared three (3) weeks look-ahead forecast to suit site condition then submit the plan to Construction Manager for approval and for timely execution.
- Coordinated with Engineering for timely closures of RFI's/ FCN's and resolutions of various issues e.g. pile cap, stick built, crane ground foundation including crane mats installation.
- Prepared lifting progress report and forecasts at regular intervals for the duration of a project
- Expedited and review modules weighing reports, CoG's and validate the results from Engineering design drawings.
- Coordinated and managed engineering lift plans preparation in accordance to Suncor crane and rigging standard; conduct pre-lift meeting and secure approval before any lift occurs.
- Managed crane mats utilization and demobilization; estimates overall project requirements including cost and recommend quantities for purchase/lease.
- Reviewed and validates Sub-contractor daily Labor, Equipment and Materials (LEM's) claims.

Field Engineering Coordinator

- Coordinated with subcontractors and Suncor C&SU coordinators for Structural deficiencies and final walkdown.
- Summarized and categorized punch list discuss and confirmed it with parties the findings and submitted to Turn-over the results for appropriate action.
- Performed field verification and inspection of various FCN's/RFI's issues, prepared results and recommendation to Engineering lead for resolutions.
- Prepared structural, piping, mechanical and electrical Passive Fire Protection (PFP) sketches, and standard for Engineering guidelines to support field requirements
- Prepared presentations for project progress and management reviews, presentations, etc.

Company : **VISTA PROJECTS Calgary, Alberta**
Project : **Cristina Lake & Foster Creek, Alberta, Canada - EPC Phase**
Client : **CENOVUS**
Position : **STRUCTURAL/CIVIL DESIGNER – June 2008 – March 2015**

Cenovus Upstream venture consists of **Foster Creek Phase F** and **Cristina Lake Phase C, D, E, F & G** projects. Both two sites produce the McMurray formation of Athabasca oil sands and feature a technology **Steam Assisted Gravity Drainage (SAGD)**. Project Phase – FEED and detailing.

Civil Works Related:

- Created 3D model design for underground gravity drainage system, pipes, manholes, catch basin; storm pond, French/perimeter sub-drain, discharge pipe outfall, sump pit and tanks secondary containment.
- Prepared detailed design drawings including; road layout, corridors, alignment, profiles, grading, drainage, storm pond, utilities, pipeline, erosions and sediment control.
- Created layout and drawing plans for tanks secondary containment system.
- Prepared design computations and analyses for road, drainage and storm pond system.
- Prepared MTO, bill of quantities, cut and fill estimates for bids and proposal works.

Structural:

- Generated/review 3D design models for complex steel structures, piperack modules, skid, buildings, vertical/horizontal equipment platforms, MPS support, piles and concrete foundations.
- Prepared structural and concrete 2D drawing from reference of the 3D models to create plans, sections and details following to design and client drawing standards.
- Prepared MTO's for steel, piles, concrete and to support project capital cost estimate, for bids and proposal works.
- Worked closely with other disciplines, engineers and team leads from preliminary to final design stage to discuss design criteria, issues and build up smooth project coordination.
- Provided self-checking of drawings to ensure all plans in accordance to project specifications and standards.
- Software Tools: **Bentley ProSteel/AutoPlant, Autodesk NavisWorks , AutoCAD, Inroads**

Company : **FLOUR CANADA LTD.**, Calgary, Alberta
 Position : **STRUCTURAL/CIVIL DESIGNER – October 2006 – May 2008**

Project 1 : **KNPC Refinery, Al-Zour, Kuwait (Dec. '07~May'08) - FEED**
Client : **Kuwait National Petroleum Corporation (KNPC)**

Project 2 : **SIPCHEM Jubail Industrial Complex, KSA (Oct.'06~Dec.'07) - FEED**
Client : **Saudi International Petrochemical Company**

- Designed and produced steel and concrete design drawings for structures support and foundation of equipment/vessel, pump, pipe racks, embedment, miscellaneous pipe/ electrical supports, platforms.
- Created 3D model of facility framework, equipment platforms, pipe rack, equipment foundation/ pads and civil works (e.g paving, trench, manhole, catch basin, and ditch).
- Checked and verified possible clashes with other discipline using **Smart Plant Review (SPR)** and view the integrity of each connection, elevation and relation to other sub-units.
- Prepared material take-off both steel and concrete
- Liaised with engineers, lead designers and other discipline to achieve project objectives.
- Software Tools: **PDS-Frameworks Plus & Bentley Microstation, Smart Plant Review**

Company : **COLT ENGINEERING (WorleyParsons) Calgary, Alberta**
 Project : **Suncor Firebag Stage 3 and Well Pads & Gathering Lines, EDS Phase**
 Client : **SUNCOR ENERGY**
 Position : **JUNIOR STRUCTURAL/CIVIL DESIGNER – March 2006 – October 2006**

Project Phase: EDS

- Designed and model gathering lines maintenance road and well pads surface including creation of grading plan, horizontal and vertical alignment, road profile, running section, contours, surface modeling, drainage using LDD.
- Provided structural design & 3D modeling of equipment steel structures, piperack & skid modules, building, concrete foundation, piling, pump foundation and MPS.
- Produced related drawings for steel structures and concrete including material take-off.
- Software Tools: **AutoPlant Structural, Autodesk NavisWorks & AutoCAD 2004.**

Company : **GOLDER ASSOCIATES LTD.**, Calgary, Alberta
 Project : **Various Oil & Gas Geotechnical Works**
 Client : **Various Clients**
 Position : **Civil Technologist – Sept 2004 – March 2006**

- Responsible on a variety of drafting design, drawings, graphics and conceptual layout for water resources, water treatment, earthworks projects and environmental services.
- Prepared construction drawings for Civil related infrastructures; drafting tasks including development of site plan, pipeline routes, well pad layout, geological cross-section, location map, wildlife habitat map, borehole location plan, archaeology drawings, topographic and air photo mosaic base mapping, diversion channel, abutment and slope protection
- Maintained regular coordination meeting with group lead and Engineers.
- Software Tools: **AutoCAD 2004 & 2005**
- Related Projects: Shell – Muskeg River Mine Expansion ; CNRL – Primrose East Expansion ; UTS Forthills – water resources and diversion channel; Suncor Energy - Voyageur

Company : **PNCC – SKYWAY, Manila , Philippines**
 Project : **Metro Manila Skyway & South Expressway Rehabilitation Projects**
 Client : **Philippine Government**
 Position : **QA/QC CIVIL INSPECTOR & PROCUREMENT OFFICER - July '99 – May 2004**

- Provided technical, full-time site inspection of progress and quality of the work performed.
- Monitored the construction work and construction site for compliance with safety standards.
- Monitored the implementation work to ensure compliance with applicable design plans, specifications, standards, codes, regulations and requirements during the construction stage from footing foundation, sub/super structures, pier table and installation of pre-stress girders
- Monitored the implementation of the Contractor's quality control program and coordinates field sampling/testing for verification of quality results as needed.
- Participated weekly coordination meetings with sub-contractors, consultants, government agency, local government representatives and provide inputs into field related submittals.
- Responsible for the centralized procurement (local & import) of capital goods and construction materials, equipment and equipment services and toll way electronic system.
- Pre-qualified suppliers recommend approval to Pre-qualification, Bids, Awards Committee
- Conduct pre-bid and bidding process; administered and prepares contract award documents.
- Expedite and follow-up shipment/delivery and track shipping.

Company : **P.B ALBERTO SURVEYING, Manila, Philippines**
 Position : **SURVEY TECHNICIAN – Jan '99 – June '99**

- Prepared related survey drawings for Land Development and Subdivision projects.
- Developed subdivision plan including lot description, road design, grading, drainage system, storm management, sanitary sewer and water distribution.
- Created topographic, hydrographic, relocation and cadastral survey drawings, as-built plan, road and highway profile and controls.
- Participated in field surveys and operated survey instruments; collected data information for calculation, plotting and designs; analyze data obtained during field surveys.
- Prepared contract documents for project tendering proposals.
- Maintained good filing management of all survey records/data's, maps and field notes
- Software Tools: **AutoCAD & Eaglepoint**
- Related Project: Major ports - Department of Transportation & Communication.

Company : **PACIFIC CONSTRUCTION LTD., Keelung, Taiwan R.O.C**
 Project : **C-301 Freeway Project (Balance Cantilever and Segmental Bridge project)**
 Client : **Ministry of Transportation and Communication, TAIWAN, R.O.C**
 Position : **QUANTITY SURVEYOR & CONSTRUCTION DESIGNER – June '95 - Nov '98**

- Reviewed and extract information from Contract drawing to be able to prepare overall project estimates, controls, schedule of operations and budget allocation per pay item.
- Produced construction drawings, section and details of bridge foundations, columns and pier tables, segmental box girder, cast-in-situ box girder, post-tensioning and stub out.
- Provided bar cutting list of all structures for fabrication and material take-offs.
- Prepared construction drawing including material take-offs for retaining walls, slope protection, abutment, diversion channel, shotcrete and drainage system.
- Review design, specifications, schedule, contracts and track change orders.
- Coordinated with China Engineering and Freyssinet Consultants on construction drawings approval, design and standard clarifications.
- Performed routine site inspection including progress measurement, evaluate of works versus schedule and input into site construction progress system.
- Support and liaise with Construction team, Planner/Scheduler, Field Engineers and Surveyors as necessary.
- Provided estimates and back up on variation orders including tracking and management.

Company : **LICA MANAGEMENT, Manila, Philippines**
 Project : **NISSAN SOUTHWOOD SHOWROOM & SERVICE CENTER AND HARMONY HOMES DEVELOPMENT**
 Position : **FIELD ENGINEER – Sept 1993 – May 1995**

- Coordinated with contractor and sub-contractors on their work schedules
- Reviewed contract work packages and execution plan; resolved conflicts and issues, removed all road blocks to ensure a successful scope of work completion
- Full time inspection and evaluate progress of works against work schedule agreed and prepares periodic report on the accomplishment done and status of works undone.
- Evaluated progress and work accomplishments, billing claims and recommends payments.
- Monitored overall budget, evaluate and analyze budget per pay items compares to accomplishment and recommend change orders to the Owner.
- Coordinated with the material supply for the early procurement and delivery of materials.
- Organized weekly coordination meeting with engineers, sub-trades and foreman.
- Prepared weekly and monthly progress, budget and accomplishment report to the Owner.

Company : **R.M CONSULTANCY SERVICES, Manila, Philippines**
 Project : **ASIA INDUSTRIES COMMERCIAL WAREHOUSE**
 Position : **FIELD ENGINEER – April 1993 – Sept 1993**

- Coordinated subcontractors on their daily work activity and schedule.
- Conducted pile construction monitoring for concrete driven pile and cast-in-place concrete.
- Conducted field compaction testing of soils and concrete.
- Prepared field change notices and extra work orders.
- Scheduled and coordinate materials and equipment requirements.
- Prepared weekly trade's payroll and measure subcontractor accomplishment for billing.
- Produced daily inspection reports for all disciplines of work performed, issues, progress, etc.

Safety Training:

- Suncor OSSA Work Safe Permit
- OSSA (Regional Orientation Program, Fall Protection, Confined Space Entry & Monitor)

REFERENCES: Available upon request