

Juan Betancourt

Survey Engineer

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Skills	Project Experience
Areas of Expertise <ul style="list-style-type: none">• Surveying (Construction engineering, mining, and legal)• Civil and building design and inspection• Earthworks construction and monitoring• Project Construction Leading and coordination <hr/> Education <ul style="list-style-type: none">• Bachelor of Applied Science (B.A.Sc.), Geomatics, University of Tolima, Ibague, Colombia, 1988• Bachelor of Science (B.Sc.), Civil Engineering, University La Gran Colombia, Bogotá, Colombia, 1991 <hr/> Membership and Associations <ul style="list-style-type: none">• Associate Member, 855371 Geomatics Specialist Certified Tech by The Ontario Association of Certified Engineering Technicians and Technologists (OACETT)• PMI – Project Management Institute member ID 5445944• Associate Member, Model Aeronautics Association of Canada, MAAC # 96379	<ul style="list-style-type: none">• Eglinton Crosstown LRT Project (Area 2 Fairbank, Caledonia & Chaplin Stations), METROLINX, CTSC (Crosslinx Transit Solution Constructors, TORONTO, ON. (June 2016 - Present) Senior Lead Surveyor. Responsible for all surveying field and office activities for the construction of 2 Crosstown LRT Stations, Planned, led and managed all survey and drafting tasks including staffing, sourcing equipment, establishing standards, staff technical training on technology. Identified and suitably deploy personnel and equipment resources to enable work to be performed within the financial safety and time limits covered by the project.• Rainy River Gold Mine Project, AMEC-Sigfusson, Rainy River, ON (Nov 2015 – May 2016) ALLNORTH, QA and Site Surveyor. Coordinated and executed all surveys (dam construction, culverts construction, and quantity tracking.) Responsible for all quantities take-off, calculations, and registered variations and as-built drawings. Designer on-site. Produced as-built verification, volume calculations, QA reports, and design drawings.• Regional Municipality of Eldon, No 471, Range Road 3240, Maidstone, SK, (Sept 2015 – Nov 2015) ALLNORTH, QA and Site Surveyor. Coordinated and executed all surveys (road construction, culverts construction, and quantity tracking.) Responsible for all quantities take-off, and registered variations and as-built drawings. Designer on-site. Produced as-built verification, volume calculations, QA reports, and design drawings.• K+S Legacy Potash Project, K+S Potash Canada, Bethune, SK (Feb 2015 – Aug 2015) ALLNORTH, Project Survey Lead. Organized overall field and office activities for all construction surveying jobs required for the construction of all infrastructure for the project potash mine and production facility. Planned and led surveying tasks including staffing, sourcing equipment, established standards for safety in all surveying activities. Designer on-site. Produced as-built verification, volume calculations, QA reports, and shop design drawings.• Keeyask Hydro Project, Manitoba Hydro, Gillam, MB (Dec 2014 – Feb 2015) ALLNORTH, Interim Project Survey Manager for BBE Hydro Constructors. Managed overall field and office activities for all construction surveying jobs required for developing \$1.4 billion BBE Hydro Constructors LP (BBE) contract by Manitoba Hydro to build the Keeyask Hydroelectric Generating Station on the lower Nelson River in northern Manitoba. Planned and managed all survey tasks including staffing, sourcing equipment, establishing standards for safety in all surveying activities. Managed and designed 3D Modeling for Grade Control System for all heavy robotic equipment and its monitoring control.• BHP Billiton Jansen Potash Project, SNC-Lavalin, Saskatoon, Sk. (Aug 2014 – Dec 2014) ALLNORTH, QA Site Surveyor. Coordinated quality assurance construction surveying services for this \$3.8-billion project. Monitored the work of sub-contractors and other third parties, including control establishment, verification and maintenance, original ground data gathering, layout design, and earthworks monitoring and volume calculation reporting and monthly reconciliation, as built design and deviation reporting.

Skills	Project Experience
<p>Training</p> <ul style="list-style-type: none"> • RPAS Pilot Certificate – Small Basic & Advanced Operations PC1905811972, Transport of Canada Civil Aviation Services, February 2019 • RPAS Ground School Training, TP15263 Compliant Training Program, Brampton Flight Centre, April 2019 • Project Management Professional Education Edge Canada, Mississauga, July 2018 • Six Sigma Certificate , Aveta Business Institute, July 2018 • UX5 Aerial Imaging Rover Remote Pilot Certification -UX5RPCE0 TRIMBLE UAS Academy. Jan 2015 • Construction Planning and scheduling George Brown College, Canada, Toronto, 2014 • Construction Project Management George Brown College, Toronto, Canada, 2014 • Quantity Surveying and Estimating Certificate , George Brown College, Toronto, Canada, 2010-2011 • Auto CAD Niagara College, Niagara Falls, Ontario, 2008 • Municipal Planning and Engineering - Association of Ontario Land Surveyors & Ryerson University, Toronto, 2007 • Boundary Retracement, Principles and Applications - Association of Ontario Land Surveyors Toronto, 2007 • Introduction to Retracement Surveys - Association of Ontario Land Surveyors London, ON, 2005 • Construction Technology for Professionals in Construction and Design (Civil works), Pilot University, Bogotá, Colombia, 1990-1991 • Systems for Pre-Complement in Construction, Colombian Society of Architects, Colombia, 1990-1991 	<ul style="list-style-type: none"> • Cobre Panama Project, SNC Lavalin initially and then First Quantum Minerals Ltd, Coclé, Panama. (Jun 2012 – Aug 2014) Project Survey Manager. Managed overall field and office activities for all construction surveying jobs required for developing \$6.5 billion “Cobre Panama” copper mine, one of the world's largest undeveloped copper projects. Planned, led and managed all survey tasks including staffing, sourcing equipment, establishing standards, staff technical training on technology. Identified and suitably deploy personnel and equipment resources to enable work to be performed within the financial safety and time limits covered by the contract. Setting up QA/QC processes and documentation. Assisted in the preparation of as-built survey drawings, reports and quantity validation. Monitored the performance of surveyors in the field and technicians in their mapping. • Husky Sunrise Phase I Project, Snamprogetti, Fort McKay, AB (Jan 2012 – Jul 2012) ALLNORTH, QA-QC Building Inspector. Responsible for all of QA / QC architectural related activities to the construction of camp facilities for Phase I of the project. Performed pre-inspection to ensure that all installed materials are within the standard in conformance to applicable drawings and specifications. Conducted final inspection prior to proceed to other work activities that requires step by step inspection as per inspection and testing procedures (I.T.P.). Rendered monitoring and surveillance on site to control the quality of work being implemented by the construction team. Identify and report non-conformance. • ATCO Transmission Development Project, CAP Engineering, Fort McMurray, AB – (Nov 2011-Jan 2012) Project Coordinator. Led a group of 10 surveyors and material technicians. Responsible for performing all aspects of civil inspection activities with minimum supervision. Coordinated daily field inspections for the structural components of the building (caissons, anchors, columns, concrete pipe racks, equipment's foundations and miscellaneous supports) to ensure that procedures and materials comply with plans and specifications. Conducted final inspections prior to proceed concrete pouring as per inspection and testing procedures (I.T.P.). Examined quality of finished installations for conformity to standard and approved installation. • MNU Plant Renovation, Suncor Energy Inc., AMEC, Fort McMurray, AB – (July 2011-Nov 2011) Project Survey Coordinator. Performed mechanical surveying and quality assurance surveying for the renovation of the plant and upgrader sites. Planned, led and executed all mechanical surveying layout (pumps, vessels, turbines) also structural surveys (steel placement for buildings, modules and piping) and piping surveys (above ground/below ground) • Xtrata Koniambo Nickel Project, Hatch/Technip JV, New Caledonia, French Polynesia. (Oct 2009-Jul 2011) Civil Works Quantity Surveyor for one of the world's largest and highest-grade undeveloped nickel deposits, with construction costs of \$6.3 billion. Responsible for take-off and recording all quantities of earthworks, infrastructure and common utilities built by for construction contractors. Preparation of the bill of quantities or specification documents for tendering purposes. Performed the scheduling of works, budgets and analysis of unit prices. Assisted the Project Controls Lead on any required in-depth quantity studies, and interpretation of the field quantities as applied to scheduling activities on a weekly and monthly basis. Mediated with construction engineers, planners and contractors, to ensure timely and accurate that work measurement data is available for processing. Overseeing the processing team in capturing data from weekly report (quantities) and populated relevant data into progress measurement systems and maintenance thereof.

Skills	Project Experience
	<ul style="list-style-type: none"> • Transportation and Environmental Services Department, City of St. Catharines, ON. (Feb 2009 – Oct 2009) Survey Technologist. • Moa Nickel Expansion Project, Hatch, Moa, Holguin, Cuba, ALLNORTH. (Oct 2007-Jan 2009) Survey party Chief. • Niagara Tunnel Project, Ontario Power Generator - Strabag, Niagara Falls, ON – (Jul 2006-Sept 2007) Survey Party Chief • William A. Mascoe Surveying, St. Catharines, ON – (Jan 2003-Jul 2006) Survey Party Chief. Legal surveying duties, conducting layouts, as-built and topographic surveys. Effectively dealt with the public and customers by providing updates, troubleshooting and frequent follow ups. Supervised and coordinated field survey activities. Investigated and located boundary evidence for all surveys. Completed computer drafting, survey calculations and registry office searches.

Biography

I am a performance-driven international professional with more than 25 years of experience as a civil and survey engineer. I am an accomplished and analytical expert with notable success in management of planning, assessment, and implementation of surveying technics for all type of construction industry.

My duties in my previous jobs have included planning, directing, supervising or conducting a significant amount of civil, structural and mechanical construction and mining surveys, lay-outs, as built and ore volume control and calculations, record of measurements and information during field activities for post processing. Analysis and computation of measurements obtained during field surveys using different survey software, and computer aided design and drafting (CAD) Civil 3D. My computer skills include, AutoCAD civil3D, Microstation, Trimble Business Center, Leica GEO, and MS Office. Preparation of compilation of all data, plans, records and documents related to surveys. Supervision and operation of survey instruments like total station, digital level, and RTK global positioning systems (GPS) equipment as well as utilizing cutting edge survey grade scanning equipment. Apart from contributing to the processes and strategies which enhance any projects I work on, my greatest strengths are firstly the ability to deliver projects to agreed timescales, secondly my skill at gaining a clear understanding of a client's exact needs, and thirdly being able to co-ordinate and lead all team resources whilst at the same time builds a strong working relationship with fellow colleagues and thereby getting them to improve their performance.