

NINO M. BIGNO

Licensed Professional Civil Engineer

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PROFILE

Licensed Civil Engineer with 19 years of experience in Quality Assurance/Quality Control Engineering, Construction Materials Engineering and Testing (CMET), and Research and Development (R&D). Demonstrated ability in overseeing diverse construction projects ranging from metro, roads and bridges, flood control to hydroelectric power plants. Committed to meeting ISO 9001 and ISO/IEC 17025 requirements and writing detailed technical reports.

A resourceful engineer possessing excellent interpersonal skills and abilities to maintain constant liaising with people. Committed to implementing and maintaining quality standards, optimizing processes, and driving continual improvement.

FIELD (s) OF SPECIALIZATION / SKILLS

- Quality Assurance / Quality Control
- Construction Materials Engineering and Testing (CMET)
- Management and Implementation of ISO 9001- Quality Management Systems
- Management and Implementation of ISO/IEC 17025 - General Requirements for the Competence of Testing and Calibration Laboratories
- Spearheading Research and Development Program (R&D)

EMPLOYMENT BACKGROUND

QUALITY ASSURANCE

MANAGER (Central Laboratory and Projects) / Senior CE

Ministry of Works (Bahrain)

Materials Engineering Directorate (MED)
December 2021 – To Present

QUALITY ASSURANCE

MANAGER (Projects) / TECHNICAL MANAGER (Central Laboratory) / Senior CE

Ministry of Works, Municipalities Affairs and Urban Planning (Bahrain)

Materials Engineering Directorate (MED)
October 2010 - November 2021

DUTIES AND RESPONSIBILITIES

- Initiated and conducted quality assurance audits and inspections on Ministry projects, which contribute to continuous improvement efforts and support overall quality system compliance.
- Issued and maintained detailed records of NCRs and managed corrective actions (CARs) implemented by the project team, confirming that these actions are effective to avoid the recurrence of deficiencies and are implemented promptly.
- Developed and maintained procedures, quality manual, and other related documents resulting in a reduction in defects and improved overall service quality.
- Collaborated with auditors to resolve identified non-conformities during both internal and external ISO 9001 and ISO/IEC17025 audits.
- Ensured that all laboratory procedures and requirements were properly implemented and monitored according to ISO 9001, ISO/IEC 17025, and relevant International Standards (BS, BSEN, ASTM, and AASHTO) requirements.

- Gathered and analyzed product failure data and laboratory test results to determine the causes of problems and develop solutions.
- Performed regular external assessment audits as a technical assessor for all the Ministry's accredited third-party laboratories (local and abroad), ensuring accurate service delivery and safeguarding the Ministry's interests.
- Performed a managerial function by managing work priorities and laboratory resources, which reflects the organization's plans. As a result, resources are efficiently and effectively utilized.
- Spearheaded quality audits of asphalt plants, crusher plants, and quarries (local and abroad), which produce construction materials used in roads, bridges, buildings, and sewerage networks.
- Defined asset procurement and prepared costing for resource acquisition and equipment maintenance schedules while maintaining the allotted budget and enhancement of services. Conducted detailed analysis, investigation, and technical evaluation of potential vendors for supplying equipment and consumables.
- Studied, evaluated, and assessed prequalification submittals such as quality plans, methods of statements, asphalt mix design, mix design of unbound mixtures, laboratory test reports, and other related documents, ensuring that they meet the requirements of the Ministry of Works General specification and the project's particular specification.
- Identified and provided technical support and leadership training to engineers and technicians, thus improving their competency in auditing, materials sampling, testing, results interpretation, and investigations.
- Spearheaded the Research and Development (R&D) program using research techniques, which eventually provided the Ministry with the results and innovative engineering solutions.
- Conducted a site investigation for road failure and submitted technical reports to client ministries and directorates, wherein it provided them with a detailed description of the methods and procedures of the site investigation used, laboratory and in-situ testing data, observations, and recommendations.
- Reviewed and submitted proposed changes and updates to the general specification as a member of the Specification Steering Committee (SSC) and Team Leader of the Ministry's Technical Working Group, responsible for overseeing the advancement of the government's standard specification for construction works.
- Provided technical consultation to clients, vendors, engineers, technicians, and university trainees.

QA/QC ENGINEER

Mc CONNELL DOWELL (*Australia*)
 Ambuklao & Binga Dam Hydro Electric Power
 Plant (HEPP) Rehabilitation Project
 Ambuklao, Bokod, Benguet, Philippines
 March 2010 – September 2010

DUTIES AND RESPONSIBILITIES

- Conducted surveillance to ensure that all latest drawings, site instructions (SI), quality manual, construction execution procedures (CEPs), and witness point notifications (WPNs) were approved and signed before implementation of works.
- Updated all site records and maintained them safely to facilitate the proper management of the project in compliance with ISO 9001 standard and QA/QC plans.
- Ensured measurement and testing devices/equipment used at work are in good operating condition and are properly calibrated.
- Issued and administered the non-conformance report & corrective action report as necessary, including follow-up.
- Facilitated and supported site teams over technical and quality matters to ensure that all works proceeded in an efficient and unimpeded manner.
- Performed planned inspection and tests as per the relevant inspection and test plans and liaised with site engineers and supervision staff of the client engineer regarding inspection requests, arrangements, and inspection test results.

- Supervised a team of civil engineering technicians and aides in performing laboratory tests and other field-testing activities to ensure adherence to the desired technical standards.
- Witnessed and inspected drilling, shotcrete works, installation, and grouting of rock bolts on tunnels, shafts, intake walls, and other areas where it is required by the client's geologist.
- Logged all drilling of holes for the groundwater control system and all exploratory drilling, water pressure testing, and grouting to explore and modify the properties of the ground on or through which works are to be constructed.
- Promoted safety awareness, including adherence to safety rules and requirements.

QA/QC ENGINEER

OBAYASHI CORPORATION *(Japan)*
 The Dubai Metro Project
 Dubai, United Arab Emirates
 October 2008 – October 2009

DUTIES AND RESPONSIBILITIES

- Verified product certification and other quality records to ensure that the documentation meets the specified requirements.
- Conducted a review of Inspection and Testing Requests (ITR) and methods of statements before the start of a specific activity.
- Performed planned inspections and tests as per the relevant inspection and test plans and liaised with site engineers and supervision staff of the consultant/engineer regarding inspection requests, arrangements, and inspection test results.
- Resolved deficiencies in materials sampling, testing procedures, and/or documentation required by the engineer of construction.
- Provided sufficient documentation through test results and other pertinent records to allow project staff to take remedial action and/or make adjustments.
- Ensured all measurement and testing devices/equipment used at work are in good operating condition and are properly calibrated.
- Issued and administered the non-conformance report and corrective action report as necessary, including follow-up.
- Performed quality engineering reviews of method statements and other relevant documentation for compliance with stated requirements.
- Conducted regular inspections on installations and construction works for the viaduct superstructure, ensuring that these were done following the requirements of the contract documents.
- Witnessed and inspected segmental bridge erection using a launching gantry (simple span, twin span, station span), mobile crane, and lifting frame for a balanced cantilever/3 span.
- Conducted monitoring and inspection of segmental bridge erection, including segment gluing, temporary prestressing of PT bars, installation of shims, cable threading, cable stressing, stitching, water testing, and cable grouting.
- Monitored and supervised load testing and crack monitoring for the viaduct superstructure.

QC ENGINEER

TOYO CONSTRUCTION CO. *(Japan)*
 Urgent Roads & Bridges Construction Project
 for Rural Development – Package 1
 Baguio City, Philippines
 April 2008 – September 2008

DUTIES AND RESPONSIBILITIES

- Monitored project quality issues. Issued and administered nonconformance reports and corrective action reports as necessary, including follow-up.
- Ensured that the project quality control plan was properly implemented and monitored.

- Monitored and witnessed steel girder installation, laying of embankment materials, and major/minor concreting works for the substructure, superstructure, and PCCP.
- Monitored, conducted, and witnessed material testing for all approved materials. Checked results to see if it conforms to the approved specification.
- Reviewed the request for inspection (RFI) and method of statements before the start of a specific activity.
- Ensured that all materials delivered to the site are inspected and conform to specified requirements.
- Verified all documents for deliveries of materials, all material characteristics, workability, and durability must be as per approved material specifications.
- Performed planned inspections and tests as per the relevant inspection and test plans and liaised with site engineers and supervision staff of the consultant/engineer regarding inspection requests, arrangements, and inspection test results.
- Completed final quality documentation in a presentable manner, following the conditions of the contract.
- Supervised a team of civil engineering technicians and aides in performing laboratory tests and other field-testing activities to ensure adherence to the desired technical standards.
- Maintained all quality records in a retrievable manner.

**SENIOR CIVIL ENGINEERING
TECHNICIAN**

Bodycote Materials and Testing Services
(United Kingdom)
Dubai, United Arab Emirates
November 2006 – February 2008

DUTIES AND RESPONSIBILITIES

STRUCTURAL INVESTIGATION

- Commissioned to conduct a full range of structural investigations of various buildings, bridges, tunnels, railways, and dry docks in the United Arab Emirates.
- Planned and executed NDT condition surveys to locate areas of unsound concrete or concrete suspected of being significantly below the specified levels of strength required by design or the required level of durability.
- Performed materials quality control/quality assurance testing and inspection in the field and the laboratory, according to the applicable procedure. In situ tests include ultrasonic pulse velocity survey, monitoring of concrete cracks (crack mapping and measurement of cracks), dry film thickness, cover-meter the survey, pull-off, and pull-out tests, a destructive test of concrete (core extraction, examination, and testing of concrete cores), a rebound hammer survey, half-cell potential, delamination survey, depth of carbonation, and dust/core sampling for sulfate and chloride profiles of concrete structure.
- Participated in contractor, subcontractor, and consultant meetings as a laboratory personnel representative and discussed issues concerning applicable and acceptable methods for resolving unusual and complex problems regarding material quality and practices.
- Independent testing in charge of running site test works. Conducted site inspections to ensure all construction work is being carried out before testing.
- Prepared technical reports.

SOILS, AGGREGATES, CONCRETE & ASPHALT

- Performed testing of fresh Portland cement concrete, including sampling, concrete temperature, slump, and fabrication of specimens for strength testing.
- Performed a variety of tests on soils and aggregates, including field density tests, elongation and flakiness index of aggregates, and other tests.
- Conducted core cutting of asphalt pavement for thickness and density verification.
- Conducted compressive strength testing of hardened concrete.
- Obtained samples of construction materials at the construction site for laboratory testing.

**MATERIALS ENGINEER / QC
ENGINEER**

**Omengan Construction & Development
Corporation (Philippines)**

Laoag River Basin Flood Control and Sabo
Dam Project Contract Package 2 – Laoag and
Alluvial Fan River Improvement Works
Laoag City, Philippines
September 2005 – October 2006

DUTIES AND RESPONSIBILITIES

- Monitored and administered the QA/QC plan/program ensuring that only acceptable quality materials, processes, and workmanship in the project work comply with the plan specifications.
- Performed planned inspections and tests as per the relevant inspection and test plans and liaised with the site engineers and supervision staff of the client engineer regarding inspection requests, arrangements, and inspection test results.
- Prepared concrete mix design, including aggregate blending as earthwork/embankment materials and MSG for the earth dike crest's aggregate-wearing course.
- Monitored project quality issues. Issued and administered nonconformance reports and corrective action reports as necessary, including follow-up.
- Verified all documents for deliveries of materials, all material characteristics, workability, and durability must be as per the approved material specification.
- Prepared reports and recommendations regarding the scope of work before repair.
- Prepared quality control reports and monitored the frequency of testing and sampling of materials.
- Supervised a team of civil engineering technicians and aides in performing laboratory tests and other field-testing activities.
- Compiled and maintained all tests and QA/QC documents.

FIELD ENGINEER

**Vicente Francisco Jr. Construction
(Philippines)**

300 Marcos Highway, Baguio City, Philippines
June 2004– September 2005

- Enforced the relevant safety rules at the site and made sure personal protective equipment was worn as and where required by the staff under their responsibility.
- Delegated tasks and scheduled meetings when required. Provided technical advice and suggestions for improvement on particular items of work on the project.
- Obtained all necessary permits and permissions from relevant city government offices before execution.
- Evaluated and resolved any discrepancies and problems arising during construction that affected the quality of work performed.
- Managed, monitored, and interpreted contract design documents to ensure that they were followed correctly.
- Conducted daily briefings with site team leaders to follow up and report on the work progress to anticipate any possible delays in planned tasks.
- Negotiated with suppliers and vendors to ensure the best contracts.
- Prepared estimates and a weekly work accomplishment report to be submitted to the client.
- Monitored project progress, compliance with design specifications, and safety standards.
- Maintained detailed documentation of all site engineering activities.

PERSONAL INFORMATION

1. PERSONAL DETAILS

Title: Eng
Name: NINO MASLIAN BIGNO
Date of Birth: 14 AUGUST 1981
Age: 42
Nationality: FILIPINO
Civil Status: MARRIED
Passport Number: P0474445B
Bahrain Driver License: 810842270

2. EDUCATIONAL / PROFESSIONAL QUALIFICATIONS / REGISTRATION

Professional Qualification:

- **Licensed Professional Civil Engineer**
Professional Regulation Commission (PRC) Reg. No. 0102393
- **Registered ASEAN Engineer**
ASEAN Federation of Engineering Organizations (AFEO)
Reg. No. 8151
- **Registered Professional Civil Engineer**
Council for Regulating the Practice of Engineering Professions (CRPEP) Reg. No. EPP/MIN/001/CE/26-B (Can be upgraded to category A)
- **Accredited Materials Engineer 1**
Department of Public Works and Highways (DPWH) ME No. 3672
- **Qualified ISO/IEC 17025 Internal Auditor** (Covers ISO 9001 Requirements)
Cert. No. 014 & 100529
- **Certified Career Service Professional**
Civil Service Commission (CSC) Cert. No. 240237

Bachelor's Degree: Bachelor of Science in Civil Engineering
School/University: University of the Cordilleras (Baguio Colleges Foundation), Baguio City, Philippines