



Walter Martinez

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SKILLS

- CAD details
- Technical information of the project
- GIS Technologies
- Cross-functional coordination
- Quoting and estimating
- Problem-solving abilities
- Team Leadership
- Adaptability
- Performance Metrics
- Development of the architecture
- Control of projects
- BIM
- Contract bidding
- Project Management
- Reliability
- Strategic Planning
- Problem-solving aptitude

WEBSITES, PORTFOLIOS, PROFILES

- www.linkedin.com/in/waltermartinez-wama
- www.arqwama.com

PROFESSIONAL SUMMARY

Experienced professional with 29 years of expertise in architecture and civil engineering, specializing in design and construction consulting. Proven track record as a project manager, successfully overseeing complex and high-value international projects from planning to final delivery, with a cumulative project value of nearly \$1 billion. Skilled in integrating advanced technologies like Building Information Modeling (BIM), Geographic Information Systems (GIS), and Enterprise Resource Planning (ERP) to optimize construction processes. Managed 78 international Bid manager totaling \$6.9 billion in key markets such as Colombia, Bolivia, Peru, and Ecuador. Collaborated closely with renowned international financial institutions including the World Bank, the Inter-American Development Bank (IDB), and the Development Bank of Latin America (CAF). Possess extensive knowledge of FIDIC and NEC contract management to ensure compliance with technical and regulatory requirements in complex infrastructure projects.

ACCOMPLISHMENTS

- **Architectural Design and Software Expertise:** Developed a wide range of functional and innovative architectural designs using advanced software (Revit, ArchiCAD, MicroStation, SketchUp), ensuring practical and efficient solutions in diverse projects.

- **Project and Team Management:** Led multidisciplinary teams from conceptual design to construction, consistently achieving high standards and efficient project delivery.
- **On-Site Inspection and Quality Assurance:** Conducted regular site inspections to ensure strict adherence to design plans and technical specifications.
- **Multidisciplinary Consulting Coordination:** Managed consulting projects, balancing social, economic, and technical requirements, particularly in sanitary engineering, to meet project objectives effectively.
- **Strategic Project Assessment:** Evaluated over 118 projects internationally, managing economic and strategic risks with multidisciplinary teams, leading to successful bids on high-impact projects such as hospitals, highways, and a major flood control system in Peru.
- **Educational Platform Implementation:** Developed a Microsoft 365-based educational platform for 1,400 high school students, including an 8,000-book virtual library and a dedicated website, to improve access to educational resources.
- **Technical Oversight Using Advanced Software:** Leveraged ArcGIS, AutoCAD, Civil 3D, and other software for effective monitoring and adaptation in flood control project initiatives.
- **Data Analysis and Cost Control:** Performed in-depth analysis and tracking of cost data, enhancing proposal accuracy and competitiveness for large-scale projects.
- **Drone Technology for Project Monitoring:** Used RTK-enabled drones to monitor infrastructure project progress (up to 150 kilometers), providing precise control and oversight.
- **BIM and Strategic Planning for Hydroelectric Projects:** Applied BIM for strategic decision-making in hydroelectric plant construction, facilitating virtual collaboration and solution development.
- **Earth-Moving Operations Oversight:** Supervised earth-moving protocols and progress reporting for flood control projects, ensuring alignment with project objectives.
- **Economic and Risk Modeling for Bids:** Developed economic and risk models to strengthen bid proposals for infrastructure projects, including highways, hospitals, sanitation systems, and educational facilities.

WORK HISTORY

INDEPENDENT CONTRACTOR

04/2022 to CURRENT

Arq. walter Martínez | Guayaquil, Ecuador

- Preparation and participation in tenders in Ecuador on the SERCOP Public Procurement Portal
- Development and implementation of the educational platform in the Microsoft 365 cloud and development of the WEB page, and Applications for the digitization of the 8 de Noviembre school library with a capacity of 1,400 students, 2,000 licenses

- Urban Proposals for the Pinas Canton on topics - Drinking water - Sewage - Urban Projects 'The holy trinity'
- Delivered outstanding service to customers to maintain and extend relationships for future business opportunities.
- information <https://www.colegio8nov.com/>

TECHNICAL ADVISOR IN BID MANAGER

03/2021 to 01/2022

CWE (China International Water & Electric Corp.) | Peru

- Part of the technical team responsible for overseeing bids in the Electric Generation sector (hydroelectric plants), roads, and flood control projects in Peru
- I contributed to 11 bids with a total participation amount of \$1.26 billion, working with various regional entities in Peru and the mining sector, particularly the Las Bambas project
- These bids were managed through the SEASE public procurement portal and the Reconstruction with Changes (ARCC) initiative
- Served as primary point of contact for triaging technical issues.
- information <https://cweperu.com/nosotros/#>

TECHNICAL ADVISOR (SAN GABAN III HYDROELECTRIC PLANT)

01/2020 to 02/2021

CWE (China International Water & Electric Corp.) | Peru

- Technical Advisor to the Project Manager and the Technical Office Manager for the 209 MW San Gabán III Hydroelectric Plant
- Responsible for BIM modeling analysis, platform administration through ACONEX, and advising on ERP technology implementation for administrative management via SAP and Microsoft 365
- Additionally, I operated the DJI Phantom RTK drone for photogrammetric surveying of the project, logging approximately 150 flight hours
- The total project budget was \$420 million
- Served as primary point of contact for triaging technical issues.
- For more details <https://cweperu.com/nosotros/#>

TECHNICAL ADVISOR IN BID MANAGER

01/2019 to 12/2020

SINOHYDRO GROUP LIMITED | Peru

- Responsible for the economic preparation and planning of the construction methodology and technical aspects of international bids in the Electric Generation sector (hydroelectric plants), prisons, roads, hospitals, bridges, viaducts, sanitary works, ports, and railways for Peru
- I managed a total of 33 bids with a total participation amount of \$1.54 billion, working with various regional entities in Peru and the mining sector through the SEASE public procurement portal
- For more details <https://www.sinohydro8.com.pe/>

INTERNATIONAL ADVISOR IN TECHNICAL

01/2017 to 12/2018

Sinohydro Corporation, Lda | Ecuador

- Responsible for the economic and technical preparation of regional bids in Peru across sectors such as Electric Generation (hydroelectric plants), roads, hospitals, bridges, viaducts, sanitation works, ports, railways, and educational facilities for Chile, Colombia, Paraguay, Peru, and Ecuador
- I participated in a total of 34 bids, with a total participation value of \$4.18 billion, working with various regional entities in Ecuador through the public procurement portal, as well as international organizations like CAF, the World Bank, IBRD, and the IDB
- Mentored junior team members in effective tender writing techniques, enhancing overall team performance.
- Collaborated with cross-functional teams to ensure accurate and timely submission of tenders.
- For more details <https://sinohydroecuador.com/quienes-somos/>

ARCHITECTURE/GIS CONSULTANT

10/2016 to 12/2016

Acsam Consultores | Guayaquil Metropolitan Area, Ecuador

- Treatment Plant Design for the New Guayaquil Airport
- Technical Assistant to the Geology specialist
- Responsible for the Management and technical analysis of the General Information, Topography, Geology, Earthworks DEM MODELS
- Responsible for determining the basis of the Design, planning analysis, land uses
- Trained junior staff members in utilizing GIS software and tools, fostering skill development and increased productivity.
- Improved data management practices by establishing a centralized geodatabase and standardizing metadata documentation across the organization.
- Implemented best practices in cartographic design principles to produce visually appealing map products that enhanced user comprehension of spatial data.
- Designed standardized protocols for data collection, creating cohesive database input guidelines to streamline intelligence retrieval and exploitation.
- For more details <https://www.acsam.net/proyectos.php>

ARCHITECTURE/GIS CONSULTANT (INSPECTION)

07/2016 to 09/2016

Acsam Consultores | Guayas, Ecuador

- SUPERVISION OF THE CAÑAR AND NARANJAL FLOOD CONTROL PROJECT
- Responsible for the closure and completion processes of the Project
- Assisted clients in defining their geospatial needs, translating requirements

into actionable project plans.

- Enabled data-driven decision making by providing high-quality geospatial visualization products for various industries including environmental management, urban planning, and transportation systems management.
- Increased client satisfaction by delivering timely and accurate geospatial analyses, supporting informed decision-making processes.
- Maintained up-to-date knowledge of industry trends and emerging technologies, ensuring the delivery of cutting-edge solutions to clients.
- Collaborated with interdisciplinary teams to integrate GIS solutions into broader project objectives and strategies.
- Developed innovative cartographic products that effectively communicated complex spatial information to diverse audiences.
- Simplified complex geospatial concepts for non-technical stakeholders, facilitating clearer communication and understanding.
- For more details <https://www.youtube.com/watch?v=3qQxPqpKXPI>
For more details <https://www.youtube.com/watch?v=Pc54ohRuVXs>
For more details <https://www.youtube.com/watch?v=q98ZwLMqqzE>

GENERAL SUPERINTENDENT CAÑAR AND NARANJAL 06/2013 to 06/2016 **FLOOD CONTROL CONSTRUCTION PROJECT**

CWE (China International Water & Electric Corp.) | Guayas, Ecuador

- Formation of the PMO Technical team, for evaluation and logistics of the execution of the Cañar and Naranjal works
- Construction of the Cañar and Naranjal Flood Control project
- Soil laboratory manager
- Advice on CAD implementation and implementation of construction management technology
- Operation of the UX5 Drone (trimble) Responsible for the management and operation of the Trimble UX5 unmanned craft, for photogrammetry of the work
- Responsible for economic analysis and project planning
- Coordination with technical changes and developments of the work with supervision
- Presentations of the Progress and technical details with Senagua, Inspection and the Institutions involved
- Management of technical information
- Responsible for the construction and coordination of the technological implementation of the EARLY WARNING MONITORING CONTROL CENTER OF THE FLOOD CONTROL PROJECT
- Total amount of the Cañar execution: \$233,000,000 million dollars
- Total amount of the Naranjal execution: \$118,000,000 million dollars
- Streamlined communication between departments for better collaboration and faster decisionmaking.
- For details https://english.cwe.cn/zdxm/202409/t20240923_267120.html

**ARCHITECTURE/GIS CONSULTANT (CANAR-NARANJAL- 12/2009 to 12/2011
BULUBULU FLOOD CONTROL PROJECT PREFEASIBILITY)**

Acsam Consultores | Guayas, Ecuador

- BASIC STUDIES AND FEASIBILITY PROJECT FOR THE BULUBULU - CAÑAR AND NARANJAL WATER SYSTEM FLOOD CONTROL PROJECT
- Designed the zoning of various project structures, including diversion channels, reservoirs, and dikes
- Developed topographic models for a study area of 900,000 hectares using SRTM and ASTERDEM satellite data
- Created hydrological models
- Provided technical support for geotechnical and geophysical studies
- Assisted in geological studies
- Conducted satellite imagery analysis of the study area
- Managed and controlled all project data using CAD/GIS systems
- Designed administrative buildings, machine rooms, warehouses, and green areas
- Responsible for managing and delivering all technical information in both physical and digital formats
- Total project budget: \$8,340,250.53 million
- Evaluated client needs and expectations, establishing clear goals for each consulting engagement.
- <https://www.youtube.com/watch?v=qEwNIIJYEQU&t=107s>
- <https://www.youtube.com/watch?v=p5t2fzVwRoA>

**ARCHITECTURE/GIS CONSULTANT (URBAN 12/2009 to 12/2011
INFRASTRUCTURE FLOOD CONTROL BULUBULU RIVER)**

Acsam Consultores | Guayas, Ecuador

- FINAL STUDY PROJECT ON FLOOD CONTROL OF THE BULUBULU, CANAR AND NARANJAL RIVER
- Design of the architecture and zoning of the spaces of the different works, diversion, reservoirs, dams, machine room
- Technical support in specifications
- Topographic Models of the study area 14,000 ha
- Using the SRTM and ASTERDEM satellites
- Hydrological models
- Technical support in geotechnical and geophysical studies
- Technical support in Geological studies
- Analysis of satellite images of the study sector
- Management and control of the information generated in the CAD/GIS project
- Design of administrative buildings, powerhouse, warehouses, green areas monitoring and control center

- Total study amount: \$8,340,250.53 million dollars
- Liaised with customers, management, and sales team to better understand customer needs and recommend appropriate solutions.
- <https://www.youtube.com/watch?v=RQn7oR5E6Fo>

ARCHITECT CONSULTANT (URBAN INFRASTRUCTURE TREATMENT PLANT) *09/2011 to 11/2011*

Acsam Consultores | Guayaquil, Ecuador

- PLANT PROJECT DESIGN OF THE TREATMENT OF THE CITY OF AMBATO
- Design of the zoning implementation and buildings, administrative, workshops, warehouse laboratory
- Total study amount: USD 479,885.00
- Reviewed technical drawings developed by CAD technicians and drafters.
- <https://www.acsam.net/proyectos.php#>
- <https://www.youtube.com/watch?v=xXMuHyW-Xkw>

ARCHITECTURE/GIS CONSULTANT (URBAN INFRASTRUCTURE) *05/2008 to 12/2009*

Acsam Consultores | Guayaquil, Ecuador

- STUDIES OF THE MASTER PLANS OF DRINKING WATER AND SEWERAGE OF THE CITY OF RIOBAMBA
- Information and project management and its engineering
- Designed administrative areas, warehouses, outdoor areas, laboratory
- Study amount USD 785,962.60
- Evaluated new software packages, assessing suitability for integration into existing workflows based on functionality, ease-of-use, scalability, cost-effectiveness among other factors.
- <https://www.acsam.net/proyectos.php#>

ARCHITECTURE/GIS CONSULTANT (URBAN INFRASTRUCTURE) *06/2009 to 08/2009*

Acsam Consultores | Guayaquil, Ecuador

- PROJECT FEASIBILITY STUDY AND FINAL DESIGNS OF THE AALL PUMPING STATION AND LINING OF THE A4 CHANNEL AND TIDAL CONTROL STRUCTURE OF THE LAS ORQUIDEAS GUAYAQUIL
- In charge of the architectural design of the pumping station
- Information and project management and its engineering
- Management of technical specifications
- Study amount: \$201,363 dollars
- Improved data management practices by establishing a centralized geodatabase and standardizing metadata documentation across the organization.
- <https://www.acsam.net/proyectos.php>

**ARCHITECTURE/GIS CONSULTANT (URBAN
INFRASTRUCTURE)**

04/2009 to 06/2009

Acsam Consultores | Guayaquil, Ecuador

- PROJECT FEASIBILITY STUDY AND FINAL DESIGNS OF 3 COMPONENTS OF THE PUERTO AZUL SECONDARY WASTEWATER TREATMENT SYSTEM
- In charge of the architecture of the pumping station
- Information and project management and its engineering
- Terrain Model MDT topography AUTOCAD 3D
- Study amount: \$157,271 dollars
- Improved data management practices by establishing a centralized geodatabase and standardizing metadata documentation across the organization.
- <https://www.acsam.net/proyectos.php>

**ARCHITECTURE/GIS CONSULTANT (URBAN
INFRASTRUCTURE)**

02/2009 to 04/2009

Acsam Consultores | Guayaquil, Ecuador

- PROJECT FEASIBILITY STUDY AND FINAL DESIGNS FOR THE IMPROVEMENT OF THE PUNA DRINKING WATER SYSTEM
- In charge of the architecture of the treatment plant
- Information and project management and its engineering
- MDT Terrain Model topography AUTOCAD CIVIL 3D
- Study amount: \$98,000 dollars
- Contributed to successful project outcomes by conducting thorough spatial analyses, producing insightful maps, and generating useful reports.
- <https://www.acsam.net/proyectos.php>

**ARCHITECTURE/GIS CONSULTANT (URBAN
INFRASTRUCTURE)**

08/2008 to 11/2008

Acsam Consultores | Guayaquil, Ecuador

- PROJECT FEASIBILITY STUDY AND FINAL DESIGNS FOR THE CONSTRUCTION OF STORM DRAINAGE IN THE BASTION POPULAR COOPERATIVE
- From architecture to project engineering
- Information and project management and its engineering
- Management of technical specifications
- Study amount: \$56,343 dollars
- Enhanced project efficiency through the development and implementation of custom GIS applications.
- <https://www.acsam.net/proyectos.php>

ARCHITECTURE /GIS CONSULTANT (URBAN

05/2008 to 07/2008

INFRASTRUCTURE)

Acsam Consultores | Guayaquil, Ecuador

- SEWER NETWORK DESIGN PROJECT FOR BASTION POPULAR, VARIOUS COOPERATIVES AND LOS VERGELES GUAYAQUIL
- Architectural design of the 12 Pumping Stations
- GIS Census Databases and Analysis
- Design of the buildings of the complementary works
- Applications in AutoCAD
- Led a team of GIS professionals responsible for developing customized web-based mapping applications tailored specifically to clients' needs.
- <https://www.acsam.net/proyectos.php>

ARCHITECTURE/GIS CONSULTANT (URBAN INFRASTRUCTURE)

08/2007 to 04/2008

Acsam Consultores | Guayaquil, Ecuador

- DESIGN PROJECT OF THE DRINKING WATER AND SEWER SYSTEM FOR THE CITY OF RIOBAMBA
- Development of the GIS Pilot Model, for the management of the Drinking Water, Sewage, and Rainwater systems, for the city of Riobamba
- ARCGIS system
- Update of the Riobamba Base cartography of the city with the purchase of QuickBird satellite image
- Analysis of alternatives through the Watergems system
- Report on the GIS complementation model and its update
- Management and integration of project CAD information
- Enhanced project efficiency through the development and implementation of custom GIS applications.
- <https://www.acsam.net/proyectos.php>

OWNER MANAGER COMPANY ARQUINAVE (ERP TECHNOLOGY)

07/2003 to 07/2007

ARQUINAVE S.A | Guayaquil, Ecuador

- Company Overview: Company dedicated to the implementation of Enterprise Resource Planning (ERP) construction management and control technology platforms, through the CIO MILENIO platform, representative in Ecuador of the company Tekne of Colombia, owner of the CIO MILENIO Software
- Advice on implementation of comprehensive works control systems
- Training in Cypacad Software, urban infrastructure, drinking water and sewage networks, air conditioning, metal and concrete calculations
- Lectures on the programs used in the middle of construction College of Architects
- Sale of Software Applied to infrastructure construction
- Training for professionals in cost systems and construction management

fullcad

- Company dedicated to the implementation of Enterprise Resource Planning (ERP) construction management and control technology platforms, through the CIO MILENIO platform, representative in Ecuador of the company Tekne of Colombia, owner of the CIO MILENIO Software

TECHNICAL MANAGER (PORT INFRASTRUCTURE)

10/2001 to 06/2003

Guayaquil, Ecuador

- Company in partnership created to maintain one of the main ports of Guayaquil NAPORTEC - BANAPUERTO
- General maintenance of the Bananapuerto Port (DOLE)
- Project development design - budget - control - supply - execution for the Banapuerto private port of Guayaquil of the company Standard Fruti
- Maintenance, civil works, Electrical, Drinking water, Sanitary, Rainwater, Irrigation, Voice and data networks, etc
- Civil Works, Control of deterioration of Facilities, and Buildings, complementation of Civil Works, for the proper Use of buildings
- Development of preliminary projects for BANAPUERTO
- General Multiple Engineering Services to the port

HEALTH INFRASTRUCTURE ARCHITECTURE

01/2001 to 09/2001

TAHAL Group | Guayaquil, Ecuador

- In charge of architectural finishes of the Pumping stations, CAD (Autocad)
- Buildings for the proposed treatment plants, design, finishes, details, budgets, budget program (INTERPRO)

TECHNICAL ADVISOR SYSTEMATIZATION OF IRRIGATION COMPANY

04/2000 to 12/2000

STANCHI | Guayaquil, Ecuador

- Implementation of Technical Areas for the company, requirements, and needs, for the formation of the technical office, advice on Systematization, Software, Hardware, according to your needs
- Development of irrigation projects for farms in Guatemala, CAD graphics of soil studies, depth measurement, drainage, cable track, etc
- Collaborated closely with cross-functional teams, ensuring optimal integration of new technologies and systems.
- <https://www.stanchisa.com/>

GIS TECHNICAL ADVISOR

11/1999 to 03/2000

C. LOTTI & ASSOCIATI - SOCIETA DI INGEGNERIA - S.P.A. IN FORMA ABBREVIATA LOTTI INGEGNERIA S.P.A. | Guayaquil, Ecuador

- Development of Digital cartography, With the use of Aerial Photographs, Georeferencing and digitization, of Lomas de Sargentillos, Poza Honda, Baja Basin of the Guayas River

- Development of the GIS Pilot Project, for the control of Irrigation of the marginal areas of Agro

ARCHITECTURE COORDINATOR

04/1998 to 10/1999

FUNDACIÓN MALECÓN 2000 | Guayaquil, Ecuador

- Participation in the design and construction of the Malecón 2000 project, Management of planning systems, budgets
- Voice and data network administration, development of virtual models, CAD
- Finishing Coordinator
- Managed project timelines for successful completion, ensuring milestones were met and deadlines were adhered to.
- Collaborated with department heads to develop strategic plans aligning with overall company objectives, fostering a unified approach toward shared goals.
- Collaborated with IT to develop user-friendly project management tool, streamlining project tracking and reporting.
- <https://malecon2000.com/>
- <https://malecon.org.ec/>

EDUCATION

Higher Level Training Cycle | computer engineering

09/1994

Litoral Polytechnic Higher School, Vía Perimetral 5, Guayaquil, Ecuador

Center For Multilingual Multicultural studies | Intensive English Program

09/2003

University of Central Florida, 4000 Central Florida Blvd, Orlando, FL 32816

ANALYSIS IN SYSTEMS | Computer programming, general

03/1997

Escuela Superior Politécnica Del Litoral, Vía Perimetral 5, Guayaquil, Ecuador

ARCHITECT | Construction Management

12/1996

Universidad De Guayaquil FACULTAD DE ARQUITECTURA , Ecuador

Currently pursuing licensure in Florida through the National Council of

Architectural Registration Boards (NCARB). NCARB application number: 899790.

RECOGNITION OF
BEST ARCHITECTURE
STUDENT AT THE 4TH
LEVEL

LANGUAGES

English

español

Professional Working

Native or Bilingual

VOLUNTEER WORK

- Represented organization positively and professionally while providing community with much-needed services.
- Collaborated with other nonprofit organizations to develop joint initiatives that benefited the broader community at large.

PROJECTS

MALECON 2000 PROJECT
CANAR AND NARANJAL FLOOD CONTROL PROJECT
PASCUALES HYDROELECTRIC PLANT
SAN GABAN HYDROELECTRIC PLANT
LAS ORQUIDEAS PUMPING AND TIDE CONTROL STATION
URBAN BASTION POPULAR INFRASTRUCTURE PROJECTS
INFRASTRUCTURE PROJECTS URBAN LOS VERGUELES
SEWER MASTER PLAN IN ESMERALDAS
SEWER MASTER PLAN IN RIOBAMBA

REFERENCES

PLANNING
CONSTRUCTION LOGISTICS
COST AND PROCESS ENGINEERING
CRITICAL PATH TRACKING
CONTROL OF WORKS AND PROGRESS
USE OF TECHNOLOGY FOR PROCESSES
AUTOMATE PROCESSES
USE OF BIM TECHNOLOGY
USE OF ERP TECHNOLOGY
USE OF GIS TECHNOLOGY