

**Management Systems in
Mining and Construction**
Civil Engineer, VBA Developer

Francisco Puertas

Professional Objective

Contribute to the excellence of my work team, strengthening our results, optimizing their quality and delivering them in a timely manner, developing and implementing robust and efficient procedures with the proper application of new technologies.

Abstract



Francisco has 26 years of experience in Planning and Control in the construction and mining industries in Latin America.

He has successfully developed software solutions for integrated management systems and tailored management panels, as well as implemented information technology to support operational processes and development of detailed designs in civil engineering.

Francisco has solid experience in the design and implementation of process management and control reports, as well as in mine planning, contractor management, asset management, integrating his talents to produce clear and measurable productivity improvements.

He has participated directly in the design and construction of tailings dams and leach pads, being head of control and quality assurance for earthworks and waterproofing with geosynthetic materials, verifying compliance with technical specifications. Also, in the installation of the overflow and underflow pipelines for sand cycloning plants for dams raise.

His entire professional life since 1997 has been spent on construction or mining sites. He is Peruvian but most of his experience is as an expatriate, in countries and projects of a variety of climates and cultures, from which he has achieved great communication and teamwork skills.

Francisco has great skill in numerical analysis, mathematical modeling, creation of algorithms and code generation.

Francisco has integrated VBA development in the creation of versatile tools for complex calculations in each project that he has participated.

Research

Mathematical model for the geometric design of third-class highways and demonstration through the development of a computer application (in spanish).

<https://hdl.handle.net/20.500.12759/8656>



Reg N° 282089

Professional Background

April 2022 – December 2022 (9 months)

Senior Planning Consultant (Operations and Maintenance)

ONESOUL MANAGEMENT CONSULTING SC – Bolivia

Administrative technical advice, consultancy, support and assistance to **Sinchi Wayra, S.A.** in the approach of the socio-economic performance model in the Porco, Bolivar and Caballo Blanco **underground mines**.

November 2020 – March 2022 (1 year 5 months)

Head of Engineering and Planning – GEMCO – Peru

Development and implementation of Integrated Management System to improve efficiency and corporate image.

November 2018 – October 2020 (2 years)

TMF Operations, Long Term Planner & Project Control

FIRST QUANTUM MINERALS – Panama

10-year long-term operations plan for the **Cobre Panama Tailings Dam** sandcell raise.

January 2017 – October 2018 (1 year 10 months)

CQA Engineer – GRAMSA CONSULTORES – Peru

Closure of the **Buenaventura** Parihuanas Mining Unit.

Construction of the **Barrick Lagunas Norte** Leach Pad Phase 7A3.

January 2016 – December 2016 (1 year)

Planner & Project Control – GRAMSA – Brazil

Recovery of the **Mineração Taboca** Hydroelectric Plant 2 (UHE2).

November 2014 – December 2015 (1 year 2 months)

Senior Consultant – JAMIESON GROUP – Mexico

Management Operating Systems (MOS), development & implementation.

First Majestic “La Encantada” Mine.

Peñoles Sabinas Mining Unit.

May 2015 – June 2015 (2 months)

CQA Engineer – GRAMSA CONSULTORES – Bolivia

Construction of facilities attached to the **EASBA** sugar plant.

March 2015 – April 2015 (2 months)

SME Engineering and Planning

IMPLEMENTATION ENGINEERS – Mexico

Supporting to **Fresnillo PLC** in achieving and sustaining significant operational improvements at the “La Herradura” Mine.

April 2014 – October 2014 (7 months)

Earthworks Consultant – EXPLOMIDE – Panama

Implementation of a control and reporting system to improve loading and hauling performance at **CEMEX's** Bayano cement plant.

July 2010 – October 2014 (4 years 4 months)

Mine Operations Planner – PETAQUILLA GOLD – Panama

Mining and development plans (short term, medium term and long term). Conceptual design of tailing storage facilities, pilot leach pads, open pit and haul roads.

Molejon Gold Mine.

January 2012 – February 2013 (1 year 2 months)

Senior Consultant – JAMIESON GROUP – Bolivia

Management Operating Systems (MOS), development & implementation – Dashboards specialist.

Sumitomo San Cristobal Mining.

July 2009 – June 2010 (1 year)

CQA Engineer – PETAQUILLA GOLD – Panama

Construction of Storage Tailing Facilities, Heap Leaching Pads and Emergency Ponds.

Molejon Gold Mine.

March 2010 – May 2010 (3 months)

CQA Engineer – GRAMSA CONSULTORES – Nicaragua and Honduras

Quality Control and Assurance in the Construction of "Storage Tailing Facilities" and "Heap Leaching Pads", Earthworks and Installation of Geosynthetic Materials.

B2Gold Orosi Mine, NYRSTAR "El Mochito" Mine and Aura Minerals San Andres Mine.

July 2007 – June 2009 (2 years)

Geotechnical Supervisor – TETRATECH – Panama

Geotechnical exploration for **Molejon Gold Mine** tailings dams.

December 2003 – June 2007 (3 years 7 months)

Project Control Supervisor – EMIN – Peru

Control of Geosynthetic Installation Operations in **Newmont** "Leach Pad Expansion and Storm Water Pond La Quinoa Stage 4" and "Leach Pad Expansion Yanacocha Stage 7".

April 1999 – November 2003 (4 years 8 months)

Lead Developer and Programmer – DIPOC – Peru

VBA development for the automation of cad processes in the design of civil works: earthworks, buildings, water and sewage lines, etc.

January 1997 – March 1999 (2 years 3 months)

Technical and Administrative Assistant – MTC – Peru

Construction of the Paday Bridge.

Concrete Arch System with Longitudinal Vaulted Walls.

Education

1992 – 1996

Bachelor's degree

Civil Engineering

UPAO – Peru

1992 – 1994

Industrial Engineering

UNT – Peru

Skills & Languages

- Strategic Planning
- Software Development
- Team Leadership
- Business Intelligence
- Management Systems

ENGLISH

(Professional Working)

SPANISH

(Native)

Software

- Visual Basic .NET
- VBA Macros
- AutoCAD
- Microsoft Office
- Microsoft Visio
- Microsoft Project
- HTML5
- CSS
- JavaScript
- B4A, Basic for Android
- Corel DRAW
- Power BI
- JD Edwards
- Microsoft Windows Networks

Contact

535 Tupac Amaru Av.

Las Quintanas, Trujillo – Peru

(+51) 942 889 229

francisco.puertas@dipocperu.com

[www.linkedin.com/in/francisco-](http://www.linkedin.com/in/francisco-puertas-b4647667/)

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