

Miguel Walter Muñoz Machicao

PhD Candidate, Msc., Bsc.,
Civil Engineering

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Titles

2014-2016 PhD Candidate at Fuzhou University.

2010-2011 Master in Structures, Foundations and Materials. Escuela de Caminos Canales y Puertos - Madrid Spain.

Master's Thesis: "Evaluation of delayed effects in prestressed concrete and composite bridge"

2009 Business Center Latin American La Paz Bolivia

Title: Diploma in: "Road Construction and Bridges". Final monograph "Inspection and maintenance of bridges using cables as main resistance elements."

2009 Pan American Academy of Engineering Society of Tarija.

Title: Calculation and Design Expert in Bridges.

40 Hours of training at the American Concrete Institute, on issues related to the structural concrete.

2003-2007 Catholic University Of Bolivia, La Paz, Bolivia

Title: Civil Engineer.

Final Work: "Models of strut and tie for structural concrete".

1991-2002 School: Bachelor of Arts San Ignacio La Paz.

Member of Engineering Organizations.

- SIB "Sociedad de Ingenieros de Bolivia"
- ACI "American Concrete Institute"
- ACHE "Asociación Científico Técnica del Hormigón Estructural"
- IABSE International Association of Bridge and Structural Engineering
- IABMAS International Association for bridge Maintenance and Safety

Particular knowledge

Languages

Spanish: Mater Tongue

Inglés: good level

Portugués: read

Francés: read

Italian: Read

PROFESSIONAL EXPERIENCE:

Bridges:

2013-2014

*Civil Engineer Assistant in the construction Company Doppelmayr in the project of three rail ropes in La Paz - Bolivia.

2012-2013

*Structures specialist engineer of for the project "Proyecto vial Motacusito - Mutún - Puerto Bush". Design for a railway bridge with a total length of 55 Km and design of all the buildings on the port.

*Design of four bridges for the highway road to be built between Oruro and Cochabamba Bolivia (for the second road). Total length of the 140 m.

*Design of a bow string bridge for the municipality of Muyupampa. Length 35 m.

2011-2012 Grupo PROINTEC Bolivia

*Project Monitoring Manager "Puentes Trillizos" La Paz - Bolivia.

*Technical support for the stabilization works in "Santa Barbara Cotapata road".

2010-2011 Grupo PROINTEC ESPAÑA

*Internship in PROINTEC Spain in the Department of Airports - Technical support for various projects

2010 Grupo PROINTEC BOLIVIA

*Structural engineer: revision of the bridge's design for the project "Doble via La Paz - Oruro" highway.

2009-2010 Grupo PROINTEC BOLIVIA

*Resident for the structures «Execution Unit Control". "Proyecto Vial Puentes Trillizos". La Paz - Bolivia.

*Junior Engineer for the "Execution Control Unit". "Proyecto Vial Puentes Trillizos".

2008 Grupo PROINTEC BOLIVIA

*Internship for the "Execution Control Unit". "Proyecto Vial Puentes Trillizos".

Edification:

2011 Warehouse design for the Nor Yungas Region.

2008 Taboada Family. Extension of the building "Figueroa".

2008 MADRASSOL France. Road extension and protection. Project route Poste Colon, Fort de France City Hall.

2008-2007 Empresa OAA

Structural Consultant's assistant. Extension of Fortaleza Office.

Structural Consultant's assistant. IJSUD Alliance Chapel: Zone Bella Vista.

2007 Muñoz y Asociados

Design and construction assistant for the Medical Center "San Vicente" project.

Collaboration in the structural design of "Casa Esperanza". Fundación Arco iris.

Construction assistant, family residence, Miraflores.

Calculation Assistant. Retaining wall, family residence.

Calculation Assistant. Structural design for a Factory for Delta Laboratories.

2007 Ing. Jorge Peña "Auquisamaña" Structural Project: Design of a private house.

2006 ACDI-BOCA Supervising and conciliation assistant for the Piquendo Los Yungas project.

2006 Sociedad "Tusequis" Ltda. Stege Construction supervisor.

2006 Compañía de Alimentos Calculist. Cylindrical Tank to store potable water.

2006 CAF Internship in the Construction Company Tauro. Building construction for the Andian Development Corporation, La Paz city.

2002-07 Muñoz y Asociados

2006-2007 Structural calculation assistant. Food Company project. Offices, phase II

2004-05 Structural calculation assistant. Project Food Company. Offices, phase I

2003-04 Calculation and construction assistant. Hospital Maternológico Santa Maria de los Angeles.

2003 Collaboration. Residencia de la Casa Central de las Hijas de la Caridad de San Vicente extension project.

Teaching experience:

2012-2016 Professor in The Military School - La Paz and Tarija cities Bolivia - Master in Structural Engineering

2006 Assistant Professor. "Hyper static structures I", Universidad Católica Boliviana.

2007 Assistant Professor. "Pre-stressed Concrete and Bridges", Universidad Católica Boliviana.

2008 Assistant Professor. "Steel and composite structure", Universidad Católica Boliviana.