

EXPERIENCE

CO-DIRECTOR – STRUCTURAL -DESIGNER - SUPERVISOR

Entity	Project (Study)	Design cost	Construction Cost	Año
<i>Guayaquil Municipality</i>	Street construction supervision (21km) - sector 9.	\$ 300.000	\$ 4.000.000	2008
<i>Guayaquil Municipality</i>	Street construction supervision (21km) - sector 9.	\$ 450.000	\$ 8.000.000	2010
<i>LAHMEYER INTERNATIONAL - Sísmica Consultores - Guayaquil Municipality</i>	Project Director - Structural Design. (1.2 km long viaduct, 8 lanes, connecting 5 main roads.	\$ 2.000.000	\$ 65.000.000	2014
<i>LAHMEYER INTERNATIONAL - Sísmica Consultores - Guayaquil Municipality</i>	Traffic Interchange at Km. 4.5 of the Daule Road, with 3 levels of roads and 8 lanes	\$ 500.000	\$ 17.000.000	2016
<i>T Y LIN - Sísmica Consultores - Transport and Public Works Ministry</i>	Construction of the Rafael Mendoza bridge Supervision, the longest in the country	\$ 2.500.000	\$45.000.000	2018
<i>T Y LIN - Sísmica Consultores - Transport and Public Works Ministry</i>	Rafael Mendoza bridge, detail engineering and design, the longest in the country	\$ 2.500.000	\$45.000.000	2018

ASSIGNED WORK:

- *I designed, planned the use and created manuals aimed at compliance with international standards in the construction safety area, including fall protection.*
- *I Led the execution of the study, ensuring compliance with national and international standards, applying tunnel, bridge and road regulations.*
- *I Directed the development of studies in the areas of Topography, Geology, Roads, Environment, Excavation, Shotcrete, Structures, Lighting, Ventilation, electrical signage, fire design, Drainage, and Costs.*
- *I Reviewed quality control of studies, using software such as SAP2000 and PLAXIS.*
- *I conducted the study review process held by 30 technicians from the contracting entity.*

PROJECT DIRECTOR - STRUCTURAL - SUPERVISOR

Entity	Project	Design cost	Construction Cost	Año
<i>Social Security Institute</i>	Construction supervision of a geriatric clinic	\$ 100,000	\$ 1.000.000	2018
Guayaquil Clinic	Heliport For Ambulance	\$ 50,000	\$ 1.000.000	2023
<i>Transport and Public Works Ministry</i>	Road Rehabilitation (21km)	\$ 160.000	\$ 6.000.000	2012
<i>Guayaquil Municipality</i>	<i>Supervision of Street Construction 200 Streets</i>	<i>\$ 300.000</i>	<i>\$ 4.000.000</i>	<i>2006</i>
<i>Sismica consultores</i>	<i>design of skyscrapers, tanks, bridges, director of and structural designer in several projects</i>	<i>\$ 500.000</i>	<i>\$ 30.000.000</i>	<i>2000-2006</i>

ASSIGNED WORK:

- *I supervised the correct use and compliance with international standards, in the field of construction safety, including fall protection implements, and developed manuals for this matter.*
- *I Led the execution of the study, compliance with national and international standards.*
- *I Supervised the use of safety elements in construction, construction of beams, columns and slab, piles, excavation.*
- *I Supervised the use of safety elements in construction, construction of beams, columns and slab, piles, excavation.*
- *I Reviewed and performed quality control and correction of the studies.*

EDUCATION

- *Master of science on computational mechanics*
University: Technische universität münchen - october 2005
- *Postgraduate course on Earthquake Engineering*
University: University of Tokyo and Int. Institute of seismology and earthquake engineering - June 2000
- *Civil engineer - Structuralist (with mention in business management)*
University: Escuela - Superior Polytechnical del Litoral - October 1999

NEW ELEMENTS CREATION FOR CONSTRUCTION SAFETY

ELEMENT	FUNCTION
Energy Dissipation Device	type X energy dissipation element with a low level of yield, an element that provides security
Earthquake-resistant Desk and Beds, to save lives in case of structural collapses	I have designed beds and desks with the capacity to resist the collapse of a structure, to serve as shelter until the person is rescued.
creation of innovative mathematical formulas and models	<ul style="list-style-type: none">• the released seismic energy method• formula for calculating the natural period of a structure• formula for calculating floor springs<ul style="list-style-type: none">• formula for calculating the necessary spacing in buildings• 5 attenuation laws to predict seismic accelerations

LANGUAGES

- *Spanish - native*
- *English - high*
- *German - intermediate*
- *Japanese - basic*