

Marco Garcia

marco.garcia@uga.edu

Education

Universidad de San Carlos de Guatemala

January 2011-June 2022

Master of Science in Structural Design

MA Thesis: "Determination of pathologies related to seismic risk in reinforced masonry structures in Guatemala City."

Average 80/100

Universidad Rafael Landivar (Guatemala)

January 2006-July 2008

Master in business administration (MBA)

GPA 3.4/4.00. Average 89/100

Universidad de San Carlos de Guatemala

January 1998-June 2004

Bachelor of Science in Civil Engineering

Ranked 5/108 students in Civil Engineering, and 8/402 students in all engineering specialties.

Thesis: "Practical Guide to the course Material Resistance 1 (Engineer Mechanics)".

Scholarships

Fulbright (administered by Laspau) scholarship for Ph.D. studies

Fall 2023

Ph.D. Candidate in Engineering- Resilient Infrastructure Systems Emphasis

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Professional Experience

Ingeniería Técnica en General -INTEGRAL-, Guatemala

june 2006-present

Owner - CEO

- Managing more than two hundred housing and civil works projects from beginning to end. Web page: www.construyeentulote.com
- Establishing funding for construction projects with banks. Prequalifying clients and advising them in the process of obtaining mortgage loans.
- Designing architectural and structural projects adapted to the client's needs.
- Managing sales strategy and marketing
- Directing more than sixty direct employees
- Supervising legal process for construction
- Coordinating projects with providers and clients
- Advising in investments
- Advising in risk analysis
- Facilitating financial projections in construction

EL TRINORSA -Structural Design-, Guatemala

2019-present

Owner- CEO

- Advising in structural design of more than 50 projects in Masonry, Concrete, and Steel buildings.
- Evaluating structures and their vulnerability and reviewing pathologies and their correlation with seismic behavior.
- Advising in analysis of soil and foundations for infrastructure
- Proposing reinforcement to improve seismic behavior in existing structures.
- Managing sales strategy and marketing
- Lecturing in webinars related to Structural Design
- Lecturing in congresses in Civil Engineering
- Advised as a volunteer in Puerto Rico's earthquake in 2020, proposed reinforcement in existent structures to improve its seismic behavior. Evaluates structures and its damages.

Soluciones en Concreto S.A. (CONSTRUCTION COMPANY)

2004-2006

Resident Engineer

- Managed a project of three hundred houses, built in site-cast concrete.
- Improved personnel management and coordinate the project with material providers, clients, and all related.

Research Experience

Universidad de San Carlos de Guatemala

January 2020- June 2022

Thesis for Master in Structural Design

“Determination of pathologies related to seismic risk in reinforced masonry structures in Guatemala City.”

Teaching Experience

Universidad de San Carlos de Guatemala

June 2004 to present

Tenured Professor- Project Management and Materials

- Teaching in project management. Course: “Preparation and Evaluation of Projects”
- Teaching in financial engineering. Course: “Economics for Engineering”
- Teaching in materials. Course: “Electrical Design.”

Tenured Professor- Structural Design

- Teaching Structural Analysis. Course: “Structural Analysis 1”
- Teaching concrete design. Course: “Design in Concrete Reinforcement”
- Teaching structural design. Course: “Structural Design”
- Teaching Structural Laboratory applying software for finite element analysis

Publications

- “Determination of pathologies related to seismic risk in reinforced masonry structures in Guatemala City”

Accepted for publication in “Revista de Estudios de Postgrado, Facultad de Ingeniería”, 2023

Skills

- Language skills. Spanish-native speaker. English-proficient
- Leadership and Innovation skills, demonstrated in business management
- Strategic Planning
- Negotiation and Problem-solving
- Communication and teaching skills
- Computer skills. Advanced Excel and finite element Software. Advanced in BIM programs