

JOSE R. RAMIREZ-HERNANDEZ

Urb. Bellas Lomas, 636 Manuel Ramón Street, Mayagüez, PR 00682-7573
Mobile: (787) 554-7883 / (787) 464-6808 • E-mail: ramirez.joseroberto@gmail.com

OBJECTIVE

To obtain a full time position related to geotechnical engineering where I can apply my knowledge and expertise in solving engineering problems in this field.

EDUCATION

MS Geotechnical Engineering at University of Puerto Rico at Mayaguez (GPA 3.63)

2009-Present; Thesis Topic: *Analysis of load transference mechanisms between drilled shaft and highly weathered rock, based in field compressive load tests to scale, using high precision sensors.* Expected to acquire Master's degree on May 2012. Advisor – Dr. Miguel A. Pando

B.S. Civil Engineering at University Rafael Landivar, Guatemala. Graduation June 2008

Degree Work: Adaptation of Federal Highway Administration's manuals of inspection to construction of contention walls with soil nailing in Guatemala.

PROFESSIONAL EXPERIENCE

Puerto Rico Seismic Network. March 2009 to Present

Analyst Geo-Seismic Data, Research Assistant. Currently collaborating with the project for evaluation of existing structures for vertical evacuation during a tsunami alert for Puerto Rico. Prepared a manual for streamline routine processes, collaborated with generating maps in GMT software and building soil profiles using MATSTRAT, monitoring of seismic stations and systems of communication, to local level and with other seismic institutions. Covering shifts to maintain the operation of 24 hours, 365 days.

University of Puerto Rico at Mayaguez. January-December 2009

Instructor of Foundations and Soil Mechanics Laboratory. I encouraged the students to learn more of soils mechanic properties and the importance in civil engineering (shear, compaction, permeability, effective and total stresses, mechanical properties and characterization).

Graduate Research Assistant. June-July 2009

Civil Engineer Department, University of Puerto Rico at Mayaguez

Ground characterization with natural frequency of soils. Collaborated with field tests using surface geophysical methods, the data obtained was analysed with MATLAB program. Collaboration work supervised by Dr. Carlos Huerta.

Total Engineering (Ingenieria Total - Guatemala) January 2007 – November 2008

Inspector. Quantification and controlled the quality of materials in field and construction processes. Adaptation of FHWA standards to the reality of Guatemala and improved the use of materials in each process, like excavation, drilling and finish of structures. In agreement with requirements of Federal Aviation Administration (FAA) obtaining the certification of International Airport Category 1.

Project - Infrastructure expansion (from 9 to 22 gates), worked in the refurbishing and modernization International Airport La Aurora, Guatemala. (Included a road improvement of two miles and construction of a viaduct of four lanes for the reduction of road impact)

(PACSA – Guatemala) January 2005 – December 2006

Project Manager. Supplied materials on site, quality control of materials, my work included writing daily reports, assistance in drawing plans. Collaborated to expand and restructure the administration of the company.

Day Care Building construction over sanitary fill and design of landscape to the Safe Passage organization. Construction of finishes, false ceiling with drywall and trim of SEARS Pradera Concepcion, Guatemala. (Teamwork of 18 people).

LEADERSHIP AND OUTREACH ACTIVITIES

EERI student chapter 2010 – 2011: I was able to provide support for outreach and educational activities related to Earthquakes and Disaster Mitigation, in Civil Engineering Department of University of PR at Mayaguez open house.

JOSE R. RAMIREZ-HERNANDEZ

Urb. Bellas Lomas, 636 Manuel Ramón Street, Mayagüez, PR 00682-7573
Mobile: (787) 554-7883 / (787) 464-6808 • E-mail: ramirez.joseroberto@gmail.com

COCONet Workshop February 2011: I participated in organizing a Continuously Operating of Caribbean GPS Observational Network, to support possible locations for GPS stations in the Caribbean, Central and South America. These stations will help to monitoring of earth and atmospheric hazards; and in the investigation of processes oriented science questions with direct relevance in this region.

Young Organization (Youth Promotion Encountered EPJ) - Coordinator of Central America (June 2007 - June 2009). Regional Congress Coordination and monitoring of the international status of the group with collaboration of coordinators from Guatemala, Costa Rica, El Salvador, Panama and Honduras. Also motivational presentations to several groups of about 40 people.

POSTER PRESENTATIONS

“Loading Test Drilled Shaft to Scale in Highly Weathered Rock” - Ramirez Hernandez, Jose R. and Pando, Miguel A. 27th Annual Caribbean Geology Symposium – University of Puerto Rico at Mayaguez. October 2011

SKILLS

Computer knowledge:

Civil Engineering: Geo-Studio, SAP2000, Etabs, Shake, AutoCad, Matlab, Abaqus, GetData, GMT, PAXIS.

Design: Photoshop, Dreamweaver.

MS Office: Word, Excel, Power Point, Publisher, Visio

Interpersonal Skills: Leadership, teamwork, initiative, easy adaptation, comfortable working under pressure, proactive, creative, self motivation, self awareness.

Languages: Spanish (native) and English.

HONORS AND ACCREDITATIONS

January 2009 – present: Scholarship sponsored by Puerto Rico Seismic Network and University of Puerto Rico at Mayaguez.

December 2009. (30 hrs OSHA) – Occupational Safety and Health Construction Administration Certified.

Guatemala Professional Engineering School (2008). License number 9150.

July 2008. Best degree work published in the Engineering Faculty of the University Rafael Landivar of Guatemala.

PROFESSIONAL MEMBERSHIPS

Earthquake Engineering Research Institute Student Chapter at Mayaguez P.R. (EERI). Webmaster Member of Directive group 2010-2012.

Society of Hispanic Professional Engineers (SHPE) 2011 – 2012.

American Society of Civil Engineers. (ASCE) 2011-2012.

REFERENCES

Available upon request