

LUCIA RAMIREZ

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EDUCATION

Loyola Marymount University (LMU), Los Angeles, CA

May 2016

Bachelor of Science in Electrical Engineering

China: Science and Engineering Ethics, LMU Study Abroad

May 2013-June 2013

- Applied Engineering Ethics to Modern China (Beijing, Tianjin, Shanghai) and Hong Kong
- Immersed into a completely different culture and stepped out of my comfort zone

RELEVANT COURSE WORK

Electric Circuit Analysis and Application

Microprocessors

Electronics – Lab Included

Engineering Ethics

Linear Systems and Signals

Cell Functions

ENGINEERING EXPERIENCE

Diminishing Patient Non-Compliance in Physical Therapy using Motion Capture Technologies May-July 2014

Gustavo Vejarano, PhD in the LMU Electrical Engineering and Computer Science Department

Research Assistant

- Evaluated and analyzed the theory and mechanics of wireless sensor nodes and the code written in C#
- Discovered the idea to apply these wireless sensor nodes to assist patients going through physical therapy
- Designed the proposed software program in efforts to assist patients perform exercises with correct alignment and provide immediate feedback
- Self-implemented and self-assessed the proposed program by performing the supine-grip bicep curl for validation

LMU Engineering Clean Water Project, Isla Espiritu Santo, El Salvador

January 2013

Engineer Volunteer/Translator

- Planned for this student-driven project 2 months prior to the week-long trip to assign responsibilities and ultimately, successfully install an Ultra-Violet filter for the only clinic on the island
- Collaborated with 7 LMU student engineers in distributing over 60 table-top filters (1filter/household), teaching how to assemble and carry proper maintenance
- Collected and analyzed filtered water from 30 table-top filters that were distributed the prior year
- Organized a community meeting to discuss on the importance of clean water and share our findings in our bacteria testings

Bellflower City Hall, Bellflower, CA

June 2012

Community Development Volunteer/Intern

- Researched on assigned projects related to zoning, building, and property maintenance codes
- Quickly learned software programs to assist the city, senior, and associate planners with their projects
- Observed 3 formal plan examinations and accompanied the Building Official on personal field inspections
- Went beyond what was expected with assigned projects and also reached out to help translate in the front desk

CONFERENCES

SHPE National Institute for Leadership Advancement, San Diego, CA

August 2014

iLEAD, LMU Student Leadership & Development Conference

August 2014

SHPE National Conference, Indianapolis, Indiana and Detroit, Michigan

November 2013, 2014

Millennium Momentum Foundation, Inc. Leadership Development Institute

October 2013-March 2014

PRESENTATIONS

Society of Hispanic Professional Engineers National Conference, Detroit, Michigan November 2014
Poster Presentation
Advancing Hispanics/Chicanos & Native Americans in Science Conference, Los Angeles, CA October 2014
Poster Presentation
McNair Annual Symposium, Berkeley, CA August 2014
Oral Presentation
Summer Undergraduate Research Symposium, LMU July 2014
Oral Presentation
Diminishing Patient Non-Compliance in Physical Therapy using Motion Capture Technologies

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers (SHPE), LMU April 2014-Present

President

- Delegate and revamp the outreach efforts for growth in professionalism and mentorship
- Wrote a proposal and was granted funding for 4 students to attend the national conference
- Make continuous efforts to implement international service opportunities to apply engineering skills abroad

Career Development Services, LMU, Los Angeles, CA September 2011-Present

Student Ambassador

- Train new student staff and spearhead professional staff administrative tasks/projects/programs
- Interact and communicate effectively with students, faculty/staff, and employers through one-on-one resume review sessions, supervisor technicalities, and the online job database navigation, respectively

Latino Student Union, LMU, Los Angeles, CA September 2011-December 2013

Vice President

- Planned and executed biweekly meetings for about 30 active members, where we organize large group discussions, small group activities, and school-wide events
- Collaborated and communicated with other 5 executive members to assure that every idea is heard and every task is accomplished; Represent the club at the LMU Latino Roundtable

SKILLS/INTERESTS

- Programming Languages: MATLAB; C#; Assembly Language
- Coursework application in Multisim, Logisim, and LabView
- Operate in both PC and Mac
- Extensive experience in Microsoft Office (Word, PowerPoint, Excel, Outlook)
- Fluent in speaking, writing, and reading Spanish
- Bilingual Musician (parish choir co-director); Keyboard, guitar, violin, sing