

ALICIA MATA

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SUMMARY

Self-motivated student with strong educational background, outgoing personality, and outstanding organizational skills. Interested in committing to challenging projects that require proficiency in GIS and engineering design.

EDUCATION

Bachelors of Science in ENVIRONMENTAL ENGINEERING | GPA: 3.91/4.0 Graduation: May 2014

University of Florida, Gainesville, FL

Registered to take the FE Exam.

Test date: April 2014

WORK EXPERIENCE

INTERN | Company: **ODEBRECHT CONSTRUCTION** | Health, Safety and Environment Division Jun-Aug 2013

Project: **Expansion of Panama International Airport** | Value: \$692 Million

- Assisted engineers with environment/civil project needs
- Assisted in research and summarization of environmental compliance rule related to reforestation
- Used technical writing skills to develop a comprehensive Environmental Contingency Plan

INTERN | Company: **PANAMA CANAL AUTHORITY** | Energy Division Jan-Apr 2011

Site: **Miraflores Thermoelectric Plant** | Generation: 156 MW

- Responsible for main office's supply inventory and purchase orders
- Managed payroll documents for 102 workers

ARCGIS EXPERIENCE

HONORS THESIS | ADVISOR: DR. DAVID KAPLAN Present

- Erosion vulnerability assessment using the Revised Universal Soil Loss Equation (RUSLE) in a subwatershed in central Panama to provide water management recommendations.

ENGINEERS WITHOUT BORDERS UF | COMMUNICATIONS LEADER BOLIVIA TEAM 2012-Present

- Collected geographical data with GPS in the community of Aripalca to allow analysis of existing water resources
- Developed highly interactive maps by transferring data from ArcGIS to Google Earth

GIS FOR HYDROLOGY AND CONTAMINAT MODELING | TRAINING May – Jul 2012

- RUSLE
- NDVI. Large scale analysis of vegetation health
- N-SPECT (Nonpoint-Source Pollution and Erosion Comparison Tool)
- Identification of floodable areas using Digital Elevation Models (DEM) and Aspect
- ArcToolBox: Analysis, Conversion, Data Management, Geocoding, Spatial Analyst

COURSEWORK Urban Planning GIS | Surface Hydrology | Groundwater Hydrology

CONTAMINATED SITE MODELING AND REMEDIATION Spring 2013

- Investigated the hydrogeological characteristics of a superfund site and constructed a conceptual site model by using the software Interactive Ground Water (IGW)
- Proposed a remediation technology and delivered a final report with site description, model assumptions, and supporting information

INVOLVEMENT & LEADERSHIP

ENGINEERS WITHOUT BORDERS UF | LOCAL PROJECT CO-LEADER Spring-Fall 2012

- Design of a sediment trap in partnership with the City of Gainesville.

UF WETLANDS CLUB | OKEECHOBEE | FIELD ASSISTANT Jan 2012

- Collected samples of litter, soil core, and below ground biomass following laboratory standards
- Adapted to changing weather conditions, flooded areas and traveling requirements

AWARDS

- Outstanding International Student Award of the College of Engineering
- Recipient of the Attributes of a Gator Engineer Award for Service to the Global Community