Rodrigo Lazo

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SUMMARY

- Computer engineer with a MSc. in Biology.
- Senior consultant and university teacher in geographic information systems (GIS) and remote sensing. Focuses on the application of these technologies in environment themes.
- Strong experience with ESRI and open source GIS software.
- More than 25 years of professional work experience in project management, leading and developing teams of engineers, geographers and geomatics technicians for the production of spatial data.
- Excellent work skills in multidisciplinary environment.
- Able to work in multiple projects simultaneously, in different roles from GIS technician up to project leader, with a strong sense of responsibility.
- Productive as both individual contributor and team member.
- Excellent communication and relationship building skills.

PROFESSIONAL EXPERIENCE

Provita. 2017. GIS and Remote Sensing Specialist Coordinator.

PDVSA (Venezuelan State Petroleum Company). 2013 and 2015. Geomatics Consultant for the Land Development Vice Presidency.

Ministry of the Environment. 2014. GIS consultant. Design and implementation of a spatial database in open source software (PostgreSQL, PostGIS).

Ingeniería Caura. 2013–2014. Database designer. Design of an open source GIS for the Monitoring and Environmental Surveillance Program in Manuel Piar Dam.

Smithsonian Marine Station (SMS) at Fort Pierce. 2012–2013. GIS and remote sensing specialist. Production of GIS marine data from satellite imagery, to assist in marine spatial planning in the Honduras Moskitia cays.

Ingeocean. 2010–2011. Database developer. Design and implementation of an open source database for a Web information system of meteorological and oceanographic data (Metocean) from buoys, on real time.

IVIC (Venezuelan Scientific Research Institute). 2003–2010. GIS consultant and remote sensing specialist. Relevant projects:

- Online catalog of Satellite Image Metadata using Geonetwork.
- Diagnosis and evaluation of mangrove areas in Venezuela, using Aster satellite images.
- Gap analysis of protected areas and biodiversity for tropical Andes: Bolivia, Colombia, Ecuador, Peru and Venezuela.
- Digital Mapping of Natural Protected Areas of Venezuela: national parks, natural monuments, wildlife refuges, wildlife reserves and biosphere reserves.

INTECMAR (Institute of Marine Science and Technology, Universidad Simón Bolívar - USB) 2004-2008. GIS project leader and GIS technician. Relevant projects:

- Identification of conservation priorities associated to the Venezuelan Atlantic seaboard ecosystems and its biodiversity, using Marxan (2008).
- Priorities for PDVSA in the conservation of biodiversity in the Venezuelan Caribbean Sea, using Marxan (2006).
- Environmental baseline survey on Venezuelan Delta Sea Platform (2006).

Schlumberger

1997 – 2003. Surface Database & Geomatics Project Coordinator, GIS Application Specialist. Relevant Projects:

- Design and implementation of a Web Database of Operational Surface Facilities for PDVSA (Venezuelan State Petroleum Company).
- Development of a Web Catalog of Satellite Images for PDVSA.
- Project management of SIGEMAP (Map Generation System of oil reservoirs).
- Implementation of a Map Service Line and GIS for PDVSA users.
- Definition of Standards and Specifications for Cartographic Automation in PDVSA.

Engineering Institute, Foundation for Research and Technological Development. Center for Digital Image Processing (CPDI). 1988 – 1997.

Operation Manager, Research and Development (R&D) professional. Responsibilities:

- Hardware and Software Unit Manager.
- Project Management (GIS and Remote Sensing).
- GIS: Consulting, training, design and implementation.

TEACHING EXPERIENCE

Teaching at universities since 2003. Now beginning to work in e-learning teaching. Courses:

- 2003-2010. *GIS for Ecology* and *Remote Sensing Analysis for Ecology*, at IVIC Postgraduate Ecology Program.

- 2003, 2006, 2014, 2015. *GIS courses* at Universidad Central de Venezuela (UCV) Geomatics Program.
- 2014, 2015: *GIS Courses* for the Universidad de Oriente (UDO).

EDUCATION

- **MSc. in Biology**. Universidad Simón Bolívar. 2011. Thesis: "Spatial and Temporal Variability of the Seabed of Morrocoy National Park". Benthic mapping with high spatial resolution satellite images and aerial photos.
- **Computer Engineer.** Universidad Simón Bolívar. 1988.

FURTHER EDUCATION

ESRI Training:
- Going Places with Spatial Analysis, ArcGIS Online. ESRI E-Learning, 2015.
- Preparing to Implement ArcGIS Online. ESRI E-Learning, 2014.
- Protecting Your Investment in Data with Metadata. ESRI E-Learning, 2009.
- Learning ArcGIS Desktop (for ArcGis 9.0-9.1). ESRI E-Learning, 2008.
- Turning Data into Information Using ArcGIS 8. ESRI E-Learning, 2006.
- Programming with Avenue 3.0. 1997.
- Using GRID with ARC/INFO. 1993.
- Teaching Course: Introduction to ARC/INFO 6.0. 1992.
- Teaching Course: Customizing ARC/INFO with AML. 1992.
- Teaching Course: Advanced ARC/INFO 6.0. 1991.
- Advanced AML. 1991.
- Cartographic Production. 1990.
- Applications Programming. 1990.
- Navigating INFO Database. 1990.

Other relevant training:

- Project Management Techniques for Development Professionals, 2016. Banco Interamericano de Desarrollo (BID).
- Teaching with Moodle: An introduction. Moodle E-Learning, 2015.
- Marxan: Design of protected areas. The Nature Conservancy (TNC). 2004.
- Increasing Training and Techniques Exchange for Siting of MPA's in Remote Coral Reef Environments in the Caribbean Using Side Sonar Scan. NOAA, New Life Foundation and Caribbean Coral Reef Institute. 2005.
- Radarsat Data Processing and Integration. Radarsat International, Inc. 1996.

COMPUTER SKILLS

- GIS: ArcGIS, QGIS, Idrisi, gvSIG.
- Databases: ESRI Geodatabases, PostgreSQL/PostGIS, SQLite/SpatiaLite.
- Satellite Image Processing: ENVI, Erdas, Idrisi, QGIS.

LANGUAGES

- Oral and written fluency in English and Spanish.

PUBLICATIONS

- Lazo, R. *Cartographic History of Aves Island*. Revista Tiempo y Espacio, No. 64. Centro de Investigaciones Históricas Mario Briceño-Iragorry, del Departamento de Geografía e Historia del Instituto Pedagógico de Caracas, 2015.
- Lazo R., Klein E., Papadakis J., Villalba C. 2008. *Portfolio of Priority Sites for Conservation*. P. 42-51 (Chapter 4). In: Klien E. (editor). 2008. PDVSA Priorities in the Conservation of Biodiversity in the Venezuelan Caribbean. Petróleos de Venezuela, S.A. – Universidad Simón Bolívar – The Nature Conservancy. Caracas, Venezuela 72p.
- A. Martín y D. Bone (ed.) 2007. *Environmental Baseline Study in the Delta Platform*. Petróleos de Venezuela, S.A. – Universidad Simón Bolívar. Caracas, Venezuela.2007.
- E. Klein, D. Sánchez, L. Malavé, J. Posada, G. Papadakis, R. Lazo, A. Chatwin, M. Guevara, J.C. González, R. Martínez, C. Villalba, E. Yerena, H. Guada, J.J. Cruz, M. Rada, C. Bastidas, and A. Ramos. 2007. *Coastal and Marine Conservation Priorities in Venezuela*. P. 49-53 (Chapter 7). In: Anthony Chatwin (editor). 2007. Priorities for Coastal and Marine Conservation in South America. The Nature Conservancy, Arlington, Virginia, USA. 63p.
- Rodríguez, J.P., Lazo, R., Solórzano, L.A. y Rojas-Suárez, F.(ed.) *Basic Digital Mapping of Protected Natural Areas of Venezuela: National Parks, Natural Monuments, Wildlife Refuges, Fauna Reserves and Biosphere Reserves*. Version 1.0, CD ROM. CIET-IVIC-CI-UNESCO-MARN. 2005.
- A. León, C. Bolaños, J. Pérez y R. Lazo. *Venezuelan Petroleum Company Uses GIS to Visualize Operational Surface Facilities* Online. ArcNews Online–Fall 2003.
- *Atlas Image of Venezuela*. Petróleos de Venezuela S.A. - Instituto de Ingeniería. 1992.

PRESENTATIONS AT CONGRESS (Recent)

- Lazo, R. Guerra, E. Bernay-Alfonzo, W., Hernández, C. Underwater topography of Laguna de la Restinga. XI Venezuelan Congress of Ecology. November 2015, Margarita Island, Venezuela.
- Lazo, R. Cartographic History of Aves Island. XI Venezuelan Congress of Ecology. November 2015, Margarita Island, Venezuela.
- Guerra, E., Lazo, R., Herrera, K. Construction of the second bridge over the La Restinga lagoon, current impacts on marine biodiversity. XI Venezuelan Congress of Ecology. November 2015, Margarita Island, Venezuela.
- Lazo, R., García, J., De los Llanos, V., Latorraca, Z. Using unconventional techniques for mapping. Cases: Aves Island and Ocumare Swamp. V National Conference on Geomatics, in October 2013, Caracas, Venezuela.