RUBIERE RAMIREZ

Geoinformatics Professional

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📍 **19 Barton Creek Street, Belmopan City, Belize**

EDUCATION

BSc. in Natural Resource Management
University of Belize

📅 2012 – 2014   📍 Belmopan, Belize

TECHNICAL SKILLS

- **Spatial Data Engineering:** Adept in R programming language and R Studio for data creation, visualization, manipulation and spatial data analysis;
- **Spatial Data Engineering:** Proficient in Python programming language for data creation, visualization, manipulation, spatial data analysis;
- **Geographic Information Systems:** ArcMap 10.8, ArcGIS Pro 3.0+, QGIS 3+;
- **Earth Observation Image Analysis in R.**
- **Spatial Database Management:** PostgreSQL database with PostGIS extension;
- **FOSS4G GeoServer Deployment**: Open Source GeoServer deployed with Apache Tomcat on Apache HTTP Server;
- **Geovisualization and geocommunication with Web GIS:** ArcGIS Online for Organization, Portal for ArcGIS, PostGIS-GeoServer-Leaflet Web Application, Mapstore2 Web Application;
- **Environmental Education Advocacy and Outreach.**

SOFT SKILLS

Organizational Skills Time Management
Team Player Leadership Skills Quick Learner
Problem Solving Skills

PROFESSIONAL DEVELOPMENT

- Caribbean Geospatial Webinar – End User Training, Facilitated by the Caribbean

EMPLOYMENT HISTORY

Geographic Information System Assistant,
Systems Development and Data Processing,
Statistical Institute of Belize.

📅 *September 2022 - Present*   📍 *Belmopan, Belize*

- Supervise the GIS Technician.
- Administer and maintain spatial databases on PostgreSQL database with PostGIS extension.
- Administer and maintain web applications on free and open-source software for geospatial (FOSS4G): GeoServer/Mapstore2.
- Administer and maintain web applications on commercial off-the-self (COTS) software: Portal for ArcGIS and ArcGIS Server.
- Developed and implemented an Enterprise Geographic Information System infrastructure exclusively with free and open-source software for geospatial: QGIS and PostgreSQL Database with PostGIS extension.
- Automate tasks and generate spatial features using R programming language using Open Geospatial Consortium (OGC) Standards.
- Provide training and support to the GIS Unit and other departments at the Institute.

Geographic Information System Technician,
Systems Development and Data Processing,
Statistical Institute of Belize.

📅 *2018 – September 2022*   📍 *Belmopan, Belize*

- Heads-up digitizes building footprints in ArcGIS suite of products and QGIS from Google Earth Pro and Environmental Systems Research Institute's World Imagery, Bing Maps, Open Street Maps, Satellite for Observation of Earth 7.
- Provide both digital web maps and hard copy maps for different departments at the Statistical Institute upon request.
- Perform Earth Observation Remote Sensing Techniques to detect changes in urban areas.
- Process aerial photos from drone imagery in QGIS and ArcGIS Pro.

Community Climate Change Centre and Caribbean Development Bank, September 2021.
- Advance Spatial Data Analysis Using ArcGIS, Facilitated by the Belize National Spatial Data Infrastructure, Ministry of Natural Resources and Total Business Solutions Ltd, October 2018.
- Creative Communications Training, Facilitated by ArcCorps, May 2015.
- Leadership Training for Social and Environmental Justice, Facilitated by the Belize Institute of Environmental Law and Policy, August 2014.

LANGUAGES

English   ●●●●●

Spanish   ●●●○○

REFERENCES

Available upon request.

- Assist with the preparation of Enumeration District Maps for the 2022 Population and Housing Census.
- Assist with the creation of maps in the SIB Census Dashboard with R programming and RStudio.
- Perform quality assurance and quality control on census spatial field data collected using ArcGIS, QGIS and R Programming.
- Deployed and maintain Open-Source GeoServer on SIB's GIS Server.
- Geovisualize Census Progress Coverage by creating a web application using open standards: Leaflet web app created using QGIS, GeoServer, PostgreSQL database with PostGIS extension and HTML5.
- Automate the generation of spatial data with R programming language using OGC Standards.
- Implement Row level and column level security with table views on PostgreSQL database with PostGIS Extension.
- Implement Geofence, Geofence Data Rules and Geofence Admin Rules on Open-Source GeoServer.

Geographic Information Systems Technician,
Coastal and Marine Data Centre,
Coastal Zone Management Authority and Institute of Belize.

🗓 *May 2017 – June 2017*   📍 *Belize City, Belize*

- Updated building footprints for Caye Caulker using Google Earth Pro and existing building footprint data.
- Prepared maps for ground-truthing in Caye Caulker using updated building footprints and parcel data provided by the Land Information Center from the Ministry of Natural Resources.
- Assisted with the collection of land use and buildings information in Caye Caulker using the Open Data Kit for android devices.
- Processed data obtained from the Open Data Kit for Caye Caulker using the building footprints Urban Land Use Data Processing Manual standardized by the Land Information Center at the Ministry of Natural Resource.

Stann Creek Field Representative,
Oceana in Belize.

🗓 *2015 – 2016*   📍 *Stann Creek, Belize*

- Represented Oceana Belize in the Stann Creek district with the public, community-based organizations, non-governmental organizations, and the business sector.
- Conducted presentations about Oceana in Belize at the Primary, Secondary and Tertiary level as well as to the community and business sector in the district.
- Canvassed neighborhood in the district with regards to their opinion on offshore oil exploration and exploitation in Belize as well as collect signatures against offshore oil.
- Recruited wavemakers (volunteers) in the district.
- Maintain and update a wavemaker database for the district.
- Organized public events in the district such as beach cleanups, mural unveiling, people's referendum anniversary event, among others.
- Procured venders for projects, provided logistics and reached out to the community for the events.