RUSSELL LYON

701 Spanish Main Dr, Cudjoe Key, FL 33042 | 678.492.2260 | russellanthonylyon@gmail.com

EDUCATION

University of Arizona
MS Natural Resources, Watershed Modeling and Ecohydrology emphasis   May 2013

Georgia Southern University, Statesboro, GA
BA Geology, GIS minor   July 2002

PROFESSIONAL EXPERIENCE

GIS Analyst III   January 2016-Present
Critigen   Naval Air Station Key West, Florida
Provides GIS support to the Navy's Public Works and Environmental programs and Naval Facilities
Southeast projects including geospatial analysis, map production and GIS training. Regular duties
include:
- Editing and attributing feature datasets and maintaining ArcSDE versions and backups in a Citrix environment and data collection using Trimble, ArcPad and Pathfinder technologies.
- Quick turnaround of maps requested by Planners, Engineers and Fire Inspectors and actively updating all installation base maps as changes occur.
- Providing hands-on and classroom training and technical support for the Navy's local web mapping application the GeoReadiness Explorer.
- Updating utility feature class geometry as locates or new features are added and documenting changes.

Environmental Information Management Specialist   February 2015-November 2016
Servicio Nacional de Áreas Naturales Protegidas por el Estado (SERNANP)   Lima, Peru

Served as a Peace Corps Response volunteer to the Peruvian National Park Service in protecting 76
natural areas by advising technical staff in geodatabase design and spatial data creation. Accomplishments
include:
- Designed a file geodatabase model for SERNANP's preexisting spatial and tabular data including developing relationship classes and incorporating domain tables to boost performance of interactive map viewer.
- Improved data quality by creating a standard nomenclature for datasets and by constructing and validating topology rules and performing spatial adjustments to fix resulting errors.
- Trained coworkers in ArcMap and QGIS and Park Guards in GPS data collection using Garmin products and created technical manuals and delivered GIS workshops in Spanish.

GIS Analyst   February 2014-January 2015
CSU Center for Environmental Management of Military Lands (CEMML)   Hill Air Force Base, Utah

Responsible for transitioning Hill's spatial data to new SDSFIE Air Force Adaptation standard and
providing maps and performing spatial analyses for Environmental Management Program Managers.
Achievements include:
- Inventoried and evaluated over 100 spatial datasets and associated attributes and developed FGDC compliant metadata in preparation for data migration to the latest standardized data model.
- Worked closely with nine Program Managers from three additional Air Force Bases to identify and ensure that all available data was incorporated into new data models.
- Supported environmental monitoring projects including creating 80 plume maps to support water quality monitoring efforts on properties adjacent to the installation.

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PROFESSIONAL EXPERIENCE Continued

Research Specialist   August 2010-January 2014
The University of Arizona   Tucson, Arizona

Served as environmental modeler and technical author for DoD's Strategic Environmental Research and Development Program (SERDP) project. Accomplishments include:
- Successfully assessed hydrologic conditions for over 80 watersheds located in four different military installations using the Automated Geospatial Watershed Assessment (AGWA) toolkit.
- Created geodatabases with hydrologic modeling results with appended metadata and wrote technical reports for delivery to military project managers.
- Used AGWA to explore the impacts that human disturbances and wildfire have on downstream hydrology, erosion rates and vegetation characteristics and created maps and hydrographs to guide Burned Area Emergency Response remediation activities.

Natural Resource Specialist   January 2007 – September 2008
Yamparáez Municipality Environmental Program   Yamparáez, Bolivia

Peace Corps volunteer responsible for providing expertise to mayor's office to aid local natural resource projects. Accomplishments include:
- Introduced GPS and GIS technology to environmental department personnel to assist agricultural projects and identify areas suitable for small dams and reservoirs.
- Coordinated the collection of GPS data of local roads, schools and health clinics for over 30 villages and assembled the first ever municipality-wide map.
- Performed community outreach activities including conservation workshops with local farmers on sustainable agriculture, tree nurseries and community gardens.

Environmental Scientist II   September 2004 – December 2006
Shaw Environmental Inc.   Los Alamos National Laboratory, New Mexico

Supported multiple environmental remediation contracts providing GIS, geology and field data collection support. Achievements include:
- Independently created local GIS division and contributed spatial investigations to support environmental assessments, remediation plan of actions and monitoring reports.
- Successfully headed a stormwater sampling team overseeing the collection from over 200 National Pollutant Discharge Elimination System permitted sites.
- Served as lead geologist on various drilling projects including logging and sampling rock cores and creating geologic cross-sections.

GIS Analyst   August 2002 – June 2004
CSRA Regional Development Center   Augusta, GA

Supported local governments in 13 rural counties with GPS and GIS technology training and cartographic products. Accomplishments include:

- Collected and post-processed GPS data for roads, trails, sidewalks and historical markers as part of a Department of Transportation contract using Trimble/TerraSync.
- Geocoded and analyzed spatial distribution of crime and teen pregnancy data to help locate future youth centers in support of a Community Youth Development Strategy project.
- Provided GIS and GPS support for local counties including providing zoning, utility and roadway maps and training non-technical employees in field data collection.