

## Jason Victor Weick

•46 Elmwood Dr. • Destrehan, LA 70047 • jason.v.weick@gmail.com • 504-952-3499

### Spatial Technologies (Geographic Information Systems, Remote Sensing, and GPS)

#### Education

- B.S., Geography, Louisiana State University, Baton Rouge, LA (2001)
- MAS, Geographic Information Technology, Delta State University, Cleveland, MS (2012)

#### Professional Positions

- 2012 – Present IT Manager/Data Manager/Environmental Monitoring Manager  
Louisiana Universities Marine Consortium (LUMCON), Cocodrie, LA. Responsible for the secure and effective operation of all computer systems and related applications, hardware and software utilized within the organization. Development and management of databases to support LUMCON's Consortia for the Gulf of Mexico Research Initiative (GoMRI); develop and maintain a geospatial database and web-based applications for data entry, viewing, and reporting; ensure tracking, storing, and access to digital data; interfacing with the GoMRI data management team and Principal Investigators to ensure data validation processes, including the integration of internal and external datasets into databases; assimilating metadata for historic datasets, ensure metadata are up to date for current datasets, and meet current accepted standards. Maintain and improve LUMCON's environmental monitoring stations equipment and data delivery.
- 2009 – 2013 Project Manager/ Geospatial Analyst  
Center for Interdisciplinary Geospatial Information Technologies, Cleveland, MS. Process imagery and create standard operating procedures for research and analytical projects. Create and manage data and database systems. Acquire and install new software for remote sensing projects and train student workers in proper use of the software. Maintain proper metadata and data quality standards; perform quality checks of final products for delivery to clients. Create quality maps using various data and products generated from spatial analysis. Assist with generation of United States National Grid (USNG) products, data gathering, creation, and conversion for use in times of disaster situations. Assist with classroom instruction and grading of student work. Coordinate student workers and manage projects in the center.
- 2010 – 2012 Physical Science Technician  
USDA – Agricultural Research Service, Stoneville, MS. Conduct research and development activities related to Precision Agriculture utilizing remote sensing, GIS, GPS data. Responsible for creation and maintenance of a multi-sensor imaging platform, and image acquisition utilizing multiple imaging systems including multispectral, hyperspectral, and thermal. Select new imaging systems and research products, software, and hardware for use in support of research projects; maintain all instrumentation packages; database creation and data management; create scripts and programs for custom applications; process remote sensing, GIS, and GPS data for classification, canopy cover change, and generation of vegetation indices.
- 2007- 2008 GIS Analyst  
NVision Solutions Inc., Bay St Louis, MS. Acquired GIS and remote sensing data for customer projects. Acquired new software for products generation. Worked at FEMA TRO office in Biloxi MS on remotely sensed imagery after Hurricane Katrina in support of recovery efforts.

- 2006- 2007 CHARTS Data Analyst  
Fugro Pelagos, Kiln, MS. Edited and produced products using LiDAR data. Processed imagery (multispectral and hyperspectral) products and post-processed GPS data.
- 2004-2006 Cartographer  
Tenix LADS Inc., Biloxi, MS. Produced cartographic products using LiDAR data including smooth sheets, sun illuminated images, and coverage plots for NOAA for generation of S-57 nautical charts. Deployed to field for operation of the system for data acquisition and initial editing.
- 2003-2004 Geospatial/Remote Sensing Analyst  
InTime, Inc., Cleveland, MS. Responsible for tracking, processing, delivery, and data backup and storage of remotely sensed imagery for use in precision agriculture applications. Created and gathered client field boundaries using GPS and heads up screen digitizing. Managed lab and lab workers and instructed on proper data processing methods and quality control.
- 2002-2003 Remote Sensing Analyst  
Institute for Technology Development/ Demonstration Project, Cleveland, MS. Responsible for tracking, processing, delivery, and data backup and storage of remotely sensed imagery for use in precision agriculture applications. Also, responsible for creating and gathering of client field boundaries using GPS equipment and heads up screen digitizing.

## **Training by Industry**

### Geospatial Information Technologies

- ESRI Courses: Basics of the Geodatabase Data Model, Exploring the VBA Environment, Geoprocessing with ArcGIS Desktop, Learning ArcGIS Desktop, Working with ArcPad, Spatial Analysis of Geohazards Using ArcGIS 9, Creating, Editing, and Managing Geodatabases for ArcGIS Desktop, Basics of Python, Getting Started with the Geodatabase, Mobile GIS: Creating Web Maps for Lightweight Mobile Apps, Python Scripting for Map Automation in ArcGIS 10, Using Python in ArcGIS Desktop 10, Getting Started with ArcGIS Workflow Manager, Using ArcGIS.com Templates to Create Web Applications, Using HTML5 with ArcGIS.
- FEMA Courses: IS-100 Intro to Incident Command System, IS-200 ICS for Single Resources and Initial Action Incidents, IS-700 National Incident Management System, IS-800.B NRF National Response Framework.

## **Software Skills**

### GIS and Image Analysis Related

- ArcGIS (ArcInfo) including Spatial Analyst, Network Analyst, 3D Analyst, Business Analyst, Geostatistical Analyst, Publisher, ArcScan, Data Reviewer, Maplex, Data Interoperability, Production Mapping, Image Analyst, TerraGo Publisher, Tracking Analyst, and Military Analyst extensions (Versions 3.2, 3.3, 8.0, 8.1, 9.0, 9.3, 10.0, and 10.1). ArcGIS Image Server. ArcGIS Server including Flex, Java, SOAP, REST, WFS, and WMS (9.3 and 10.0)

ArcGIS Online, ArcGIS Web Mapping API's JavaScript and Flex, ArcGIS Runtime SDK for Android, ArcGIS Mobile, ArcPad.

- TerraGo Toolbar, Publisher, and Composer.
- Intergraph Erdas Imagine, Imagine Objective, LPS.
- Exelis Visual Information Systems Products ENVI and IDL.
- Bentley Microstation.
- Overwatch Systems Feature Analyst, and LIDAR Analyst.
- Applied Imagery QT Modeler.
- Trimble Terrasync, and Applanix POSpac.
- Quality Positioning Services Fledermaus.
- National Instruments Data Acquisition, Vision Software, and components.
- Google Earth and Google Maps.

#### Operating Systems and Office Productivity

- Windows operating systems: NT, XP, 7, Mobile.
- Linux Operating Systems.
- Android Operating System.
- Microsoft Office (Word, Excel, Publisher, Access, Groove, Outlook, and OneNote).
- SAP Crystal Reports.
- Adobe CS Professional.
- TechSmith: Camtasia Studio and SnagIt.

#### Programming and scripting

- KML, KMZ, XML, HTML, HTML5, Java, JavaScript, C#, Python, Visual Basic.

#### **Field Experience**

- GER 1500 Radiometer, Analytical Spectral Devices Spectro-radiometers, Konica Minolta SPAD 502 Plus Chlorophyll Meter, LI-COR LAI-2200 Plant Canopy Analyzer, Trimble and Topcon RTK GPS equipment, and other handheld GPS devices and connecting to other equipment to use the NMEA streams for positioning.
- Experienced in Multispectral, Hyperspectral, Thermal, and LIDAR imagery acquisition, pre-processing, post processing, and product generation.
- Extensive knowledge of Precision Agriculture components and field research methods.

- Experienced with computer repair and maintenance.