

**MARTIN QUARSHIE-SEMADEGBE**

**164 E 14<sup>th</sup> Ave, BROOMFIELD, COLORADO, 80020 #720-607-0457**

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**CAREER OBJECTIVE**

A GIS/Data Analyst seeking challenging assignments and responsibilities with an opportunity for growth and career advancement.

**SUMMARY OF QUALIFICATIONS**

- o Data acquisition, management, analysis and visualization
- o Database design, creation, maintenance and administration
- o Statistical spatial analysis including raster calculation, automation of tasks and tools using ArcGIS
- o Model Builder with Python
- o Network planning and analysis and optimization, Geospatial data standards and interoperability
- o 3D City GML, XML, KML and KMZ applications for Google Earth
- o Cartographic design, Geocoding, attribute editing, topology correction, georeferencing etc
- o GIS Web application development, creation of ArcGIS online maps etc
- o Metadata creation and maintenance, quality assurance testing
- o GPS data collection and conversion, spectral analysis (multispectral, hyperspectral), digital image of satellite and aerial data
- o Large GPS/IMU data processing, Flight Mission data import, Blockmerge, editing, Tie Point processing, Bundle Adjustment, Colorbalancing, Radiometry correction and image export
- o Terrain modeling and Geospatial analysis, orbital mechanics and computations, GPS signal processing computation

### **PROFESSIONAL EXPERIENCE**

#### **Geospatial Intelligence Center/ Vexcel Imaging-** Boulder, CO

##### **GIS Analyst** - Jan. 2018 - Current

- Perform QC checks on GPS/IMU data for accuracy
- Process GPS/IMU data with PosPac and QGIS
- Export Exterior Orientation of GPS/IMU data
- Import Flight Mission data into UltraMap Studio
- Blockmerge level 2 (Lv02) data and performed QC check one for Vignette, oil on lens, shadow, and other quality issues
- Send Lv02 data for Tiepoint processing
- Check for lineshifts and undertake corrective measures
- Import GPS/IMU EO files and performed necessary edits if any
- Import Ground Control Points (GCPs)
- Measure GCPs
- Send Lv02 data for Colorbalancing
- Perform radiometry adjustments and correction.
- Export completed images to delivery.

#### **TMG Construction** - Denver, Colorado

##### **GIS Analyst II** - July 2017 - Jan. 2018

- Acquired enterprise datasets and created SQL oracle database.
- Developed accurate GIS workflow; data extracts, mapping, summary tables and final reports for business stakeholders.
- Automated mapping processes by creating workflow configuration in FME
- Updated workspace ESRI Geodatabase metadata from external file with FME
- Converted spatial data from one coordinate system to another with FME.
- Used FME to converted KML and MapInfo TAB files to ESRI shape files.

- Design and continuously supported the development of architecture and processes required for GIS and Business Intelligence integration, platform technologies and data workflows.
- Created standardized, repeatable processes for data acquisition and analysis of quantitative and qualitative data using ETL and other data analytic processes.
- Synthesized multiple datasets to answer 250 spatial questions.
- Applied network analysis in ArcGIS, Microstation and Bentley for transport, utility and other network analysis and simulation.
- Collaborated with management and evaluated business requirements.
- Migrated data between Oracle Spatial and other supported formats and applications supported by FME for interoperability purposes.
- Transformed and converted location data on spreadsheets, tabular data i.e. CSV and Excel with FME

**Best Buy** – Belmar, Lakewood

**Geek Squad Agent** (Part Time)- Dec 2017 – current

- Achieved 97% on customer satisfaction index for three consecutive months.
- Installed operating systems, updated all runtimes, run system updates.
- Factory reset computers, TVs and other devices using Geek Squad MRI tools.
- Performed upgrades on existing computers.
- Backed up system files and transferred backed-up data from one source to another
- Scanned, removed all threats.
- Performed system hardware and software diagnostics.
- Provided computer literacy training to clients.
- Performed general computer tune-ups.

**Institute of Tropical Medicine, Charite University Hospital, Berlin-Germany**

**Research Assistant**- Sept 2013 – June 2015

- Provided research support to EU-funded project to study and mitigate high prevalence of obesity and diabetes
- Provided research support to EU-funded project to study and mitigate high prevalence of obesity and diabetes among Ghanaians living in London, Amsterdam, Berlin, and Kumasi, Ghana.
- Coordinated and conducted interviews with study participants, gathering information on socioeconomic factors and dietary habits and uploaded data into centralized database.
- Scheduled appointments with Charité Hospital, facilitating collection of medical data and specimens for analysis.
- Transformed MS Excel data collected into Oracle11g format to create relational database
- Used FME Server REST API interface to access core FME Server functionality
- Convert CAD data into GIS format for processing and visualization purposes
- Performed python scripting parameters in FME

**CriticalPath (Now Synchronoss Technologies)**- Berlin, Germany

**Quality Assurance Engineer** – Sept 2011 – Sept 2013

- Tested and identified bugs in application messaging software across all platforms and mobile devices for British Telecom, Swisscom, Telenora, Dutch Telekom (KPN), and NEXTEL.
- Designed Excel based regression test cases and executed test throughout software development lifecycle for new releases and packages, prepared test plans, test scripts, and use cases based on requirements, best practices, and user feedback.
- Documented all defects in Bugzilla and provided links in Excel and JIRA.
- Documented all issues, defects, bugs, progress and vital information in JIRA.
- Undertook software technical documentation thus completing the project two weeks to scheduled deadline.

## **Volta GIS Technologies Ltd - Accra, Ghana**

### **Project Consultant- Volta Lake restoration project - Sept 2005 - 2007**

- Gathered GPS data using Trimble tripod and TerraSync collection using and conversion to GIS data.
- Collected raw satellite imagery and performed spectral (Multispectral and hyperspectral) analysis.
- Created vector maps and determined areas liable to flooding.
- Created Satellite digital elevation models.
- Simulated navigability and potential hazards during flooding using GPS control points.
- Interpreted aerial imagery and performed geographic feature coding, programming and tool testing.
- Created java-based web application based on Model-View Control 2 approach.
- Installed and configured FME server
- Reprojected coordinate systems data
- FME for mapping and visualization of data, data conversion and transformation
- Expert in FME Factory functions and usage
- Write and execute SQL statements in FME
- Restructured data type with the help of data transformers
- Conducted data inspection using FME workbench
- Imported and managed Reader Feature Types
- Imported and managed Writer Feature Types

### **Computer Skills**

- Advance at ArcGIS (ArcMap, ArcCatalog, Arcscene) Bentley, Microstation
- Advance at GML, 3D city GML, XML, Python and java scripting
- Proficient at Microsoft Access, Word, Excel, PowerPoint
- Advance at Windows, Linux, Mac
- Proficient at Idrisi, Geomatics, Tableau, Informatica, Matlab, Oracle, QGIS
- Advance at HTML, CSS, MapInfo, JIRA, QGIS, POLSARPro, ERDAS, Pentaho
- Advance at FME Workbench

### **Education**

**Technical University of Berlin**, Berlin-Germany

2009 - 2014

MSc - Geodesy & Geoinformation Science

**Coursework:** Geoinformation technology, Geo-databases ( Oracle Spatial and FME, Geo-computation, GIS

Project Management, Java Programming, Advance Spatial Modeling, Optical Remote Sensing, Radar and

Microwave Remote Sensing, Photogrammetric Computer Vision, Satellite, Space and Planetary Geodesy, 3D-

Laser Scanning, Geographic Information Systems and Science, Solar Potential Analysis.

**Carinthia University of Applied Science**, Villach-Austria 2007 - 2009

MSc - Spatial Decision Support Systems and Operation Research

**Coursework:** Geoinformation Science and Technology, Formal Software Modeling,  
Scientific Writing, Statistical

Spatial Analysis, Network optimization, Java programming, SQL and Access database  
programming, Geo-

Database Management, Applied Internet Technology, Project Management & GIS, Spatial  
Cognition and

Semantics, Discrete Combinatorial Optimization, User Interface Design (Java).

**University of Cape Coast**, Cape Coast-Ghana

BA, Geography & Economics

### **Certifications**

**ESRI-** Desktop Geoprocessing