

# Matthew Schroeder

## EDUCATION

### **Graduate Studies | University of Maryland | College Park, MD | May 2015**

- Masters of Professional Studies in Geospatial Information Science
- Reserve Officers Training Corps (ROTC)

### **Undergraduate Studies | University of Montana | Missoula, MT | May 2012**

- Bachelor of Arts in Geography
- Certificate in Geospatial Information Science

## EXPERIENCE

### **Geospatial Intelligence Analyst | The MASY Group | FT Belvoir, VA | Feb 2017 – Present**

- Geospatial analyst for the Defense Threat Reduction Agency's Intelligence dept
- Perform GIS analysis and map creation for reports and presentations used by the DTRA director, senior leaders, members of the military, and congress
- Utilize ESRI suite products in both desktop and online formats
- Database management, data integration, and online mapping on multiple domains
- Edit and update various vector datasets to include roads, rivers, points of interest, areas of influence, and physical and administrative boundaries
- Work alongside other GIS analysts to identify data from a variety of sources
- Developed policies & procedures to standardize GIS utilization & implementation
- Interact with customers & producers to assure data is current, accurate, & uniform
- Improved office efficiency by streamlining the production of GIS enabled briefings

### **GIS Analyst | EEE Consulting | Richmond, VA | Nov 2015 – Apr 2016**

- Supported environmental projects by conducting GIS analysis, and map production
- Collected data using ArcGIS Online and handheld GPS collection platforms
- In charge of data creation, editing, quality assurance, and metadata collection
- Maintained company resources including databases, software, and hardware (GPS)
- Researched state, county, and city GIS datasets and supporting documents
- Edited and merged GIS datasets from various counties, cities, and rural localities
- Analyzed datasets to include road centerlines, NHD flowlines, NWI wetlands, local hydrography, parcels, public lands, and national land cover datasets
- Utilized ESRI products, handheld GPS devices, and Google earth imagery
- Conducted field research using handheld data collection platforms
- Prepared, coordinated, and consolidated documents, reports, and briefings

### **Advanced GIS Internship | START | College Park, MD | Jan 2015 – May 2015**

- Researched and geolocated high value targets into ESRI suite products
- Worked alongside and supported other GIS interns and employees
- Developed GIS models to determine areas vulnerable to illicit border crossings
- Briefed a multi-disciplinary group on projects involving complex GIS terminology

### **GIS Technology Assistant | University of Montana | Missoula, MT | Oct 2011 – May 2012**

- Utilized ESRI suite products
- Assisted students in resolving GIS related problems
- Prepared cartographic aids and reviewed GIS classroom materials
- Monitored GIS computer lab and updated GIS related software

## ARMY RESERVES

### All-Source Intelligence | Officer | May 2015 – Present

- Trained in geospatial analysis, collection management, and trend analysis
- Oversee analysts who actively support real world intelligence around the world
- Monitor unit readiness, and brief senior leaders

### Signal Support Systems Specialist | Enlisted | Feb 2012 – May 2015

- Trained to maintain GPS devices, radios, and data distribution systems
- Provided technical assistance and training to non-technical staff
- Led a team of 12 who met the IT needs of 200+ people

## BEYOND WORK

- ▶ Eagle Scout (2008)
- ▶ The Leadership, Achievement, and Service Scholarship Award
- ▶ University of Montana:
  - Dean's List | ('10-'12)
  - Dep. of Geo. Outstanding Senior
  - Int'l Geography Honors Club
  - Mortar Board: Nat'l College Senior Honor Society
  - Student Employee of the Year Nominee
- ▶ University of MD ROTC Graduate
- ▶ Army Reserve Commendation Medal
- ▶ American Association of Geographers

## STRENGTHS

### Software

ESRI Suite products  
QGIS, ENVI, Erdas  
Garmin BaseCamp  
Pathfinder Office  
Adobe Illustrator  
Google Earth

### Programming

HTML5, CSS, PHP,  
JavaScript, Python  
Web & Mobile GIS

### Analysis

Vector and raster spatial datasets  
Satellite/aerial imagery analysis  
Remote Sensing using Lidar  
Data interpretation, processing,  
projecting, & modeling

### Data Management

Oracle, ArcGIS Server  
Database query  
& manipulation  
Metadata collection  
Detail oriented