Michael M Bowser

https://mbowser13.github.io
michael.m.bowser@gmail.com || 703.859.1135

I am a geospatial specialist from Pittsburgh, Pennsylvania. I have been working with mapping technology since 2011, starting as a GIS technician preparing maps and providing data management and most recently working as a senior geospatial specialist developing open source web applications and add-ins with ArcObjects. I especially enjoy building applications with either C# or JavaScript and experimenting with new open source technology.

EXPERIENCE

Senior Geospatial Specialist - Wetland Studies and Solutions, Inc.
October 2013 – Present | Remote (Pittsburgh, PA)

- Worked as the GIS Lead and Geospatial Project Manager on multiple electric utility contracts
- Developed desktop applications and ESRI ArcGIS add-ins using C# and ArcObjects
- Used Leaflet, OpenLayers and GeoServer to create web mapping applications
- Introduced Python scripts and models to increase workflow efficiency for geospatial deliverables
- Leveraged various analytical techniques to support existing projects and new business development
- Assisted staff with AutoCAD spatial data creation and spatial reference system conversions/scaling

GIS Technician – Gibson Thomas Engineering
January 2013 - October 2013 | Latrobe, PA

- Constructed spatial databases for water and waste water utilities
- Prepared GIS mapping and developed data to support numerous sewer system models
- Worked with survey team to capture data for completing system maps

GIS Technician – The Carnegie Museum of Natural History
May 2012 – May 2013 | Rector, PA

- Managed a research project to map tornado damage within the nature reserve
- Produced high quality trail maps for visitors, employees, and researchers of the property
- Created customized ArcGIS geodatabases for nature reserve research projects

GIS Technician – Institute for Mine Mapping, Archival Procedures and Safety
September 2011 – January 2013 | Indiana, PA

- Analyzed and recorded geographic and attribute data from historical mining maps
- Preserved historical maps and documents through digital scanning or imaging
- Utilized historical map metadata to georeference map scans with ArcGIS
- Digitized underground mines and associated attribute data using ArcGIS Editor functionality

SKILLS

ArcGIS Desktop (v10.x)
ArcGIS Server
GeoServer
Leaflet
OpenLayers
ArcPad
QGIS
ArcGIS Pro
LiDAR
Spatial Databases
Cartography

C#.NET
Python
JavaScript
HTML
CSS
Microsoft Access
R
Visual Studio
AutoCAD
Open Source

EDUCATION

Master of Geographic Information Systems – Penn State University
Major: Geographic Information Systems   2016 – 2018 (Expected)

Bachelor of Arts – Indiana University of Pennsylvania
Major: Geography with GIS Option   2009 – 2013

LINKS

GitHub: https://github.com/mbowser13
Personal Website: https://mbowser13.github.io/
LinkedIn: https://www.linkedin.com/in/michaelbowser1/
Company Website: http://www.wetlandstudies.com/

PUBLICATION

Bowser, Michael M. *Black Birch Trail* [Map]. In: Gretchen N. Peterson. *GIS Cartography: A Guide to Effective Map Design.* Second Edition. Boca Raton, FL: CRC Press Taylor & Francis Group, 2015, p.276.