Bradley A. Andrick andrickba@gmail.com | Charlotte, NC

Education:	
 University of Wisconsin - Madison – Madison, WI M.S. Cartography and GIS Development GPA: 4.0 Concentration: GIS Development and Programming 	May 2019
<u>James Madison University</u> – Harrisonburg, VA • B.S. Geographic Science Minor, Environmental Science Major GPA: 3.7, Overall GPA: 3.5 • Concentration: Environmental Conservation, Sustainability and Development	May 2014
Professional Experience:	
 Lead Software Engineer – Theorem Geo Inc. Coordinated and lead development, enhancement and ongoing maintenance of software products Architected and executed migration from AWS to Google Cloud Platform of application infrastructure Designed applied machine learning applications to productize asset extraction and computer vision to Product owner for building a spatial video application system and lead product roadmap and re-designed 	e technologies
 Programmer/Technology Solutions Administrator – ArborMetrics Solutions	-
 GIS Coordinator – James Madison University (Facilities Engineering Dept.)	_
 GIS Developer – James Madison University	_
 GIS Technician – James Madison University (Facilities Engineering Dept.)	
 Teaching Assistant – James Madison University	3 – May 2014
 Engineering and Planning Intern – Shentel (Telecommunications)	
 Percussion Instructor – Central High School	9 – Aug 2013
Buildings and Grounds Assistant – Shentel (Telecommunications)	9 – Aug 2012

• Completed work orders while operating company vehicles and maintenance machinery

Conference Presentations:

"Using the ArcGIS JavaScript API in a Hybrid Geospatial Architecture"

Esri Developer Summit, Palm Springs CA (Virtual), 2021 (expected, already accepted)

Presentation note:

Bradley Andrick's presentation highlights the power of the ArcGIS API 4.x for JavaScript with GeoJSON data using the GeoJSONLayer class to satisfy a hybrid geospatial architecture requirement.

"Using Spatial History to Challenge the Exclusive Past"

National Council for Public History Conference, Baltimore MD, 2016

Presentation note:

Dr. Kevin L. Borg (Associate Professor, History) and **Bradley A. Andrick** (GIS Coordinator, Facilities Management) presented at the National Council for Public History conference. **Borg** and **Andrick's** project shows how spatial analysis can be within the reach of local historical societies and community groups.

"Designing a GIS for Campus: Planning, Development, and Maintenance"

Virginia Chapter of the Association of Physical Plant Administrators (VAPPA) Conference, Harrisonburg VA, 2016 <u>Presentation note:</u>

Brad Andrick, JMU & **Dale Abbott**, VHB – Discusses how JMU's Facilities Management Geographic Information System has progressed. Specifically; how it was started, where it currently stands, and where it is going. Additional topics will also include general GIS planning from a contractor perspective.

"Leveraging ArcGIS Online: Cloud Mapping and Mobile Phone Data Collection"

Regional GIS User Group Meeting, Harrisonburg VA, 2015

Presentation note:

Bradley Andrick presents on the use of mobile phone GPS data collection capabilities and current technology. Topics include history of mobile devices and GPS, cloud GIS software comparisons and how to leverage these technologies along with existing GIS infrastructure to lower costs and increase mapping capabilities.

Technical Skills:

Geoprocessing and Spatial Analys	is Software and Development	Software (Cont.)
Geodatabase Management	ArcGIS – up to latest 10.x	Python Scripting, GDAL/OGR, ArcPy
Enterprise GIS Design	(ArcMap, ArcCatalog, ArcGIS Online, Model Buil	lder, JavaScript, node.js, HTML, CSS, React
Web Application Development	ArcGIS Pro, ArcGIS for Server)	C# & .NET Frameworks, Java, Xamarin
Scripting – ArcPy, JS, SQL	AutoCAD – Civil3D MS	SQL Server/PostGRES-PostGIS/General DBMS
ArcGIS UI Customization	Trimble Access/ TerraSync	GitHub/GitLab/Versioning
Model Builder	Trimble Business Center/Pathfinder Office	Leaflet.js, Googlemaps API
GPS/Survey Data Collection	Mapcom Systems M4	Openlayers API, Esri JavaScript API
Image Analysis	GoogleEarth/Maps Engine	FME Universal Translator
Cartographic Design	Boundless and QGIS	Adobe Illustrator/InDesign
Spatial and Statistical Analysis	Mapbox Studio and TileMill S	urvey Grade Trimble GPS Units (Juno, Geo XT,
Coordinate Systems and Projection	ns CartoDB + CartoDB.js	GeoExplorer 5, TSC2, TSC3, R8, R10)

Community Service & Honors:

- GIS Consulting pro bono, Asheville Greenworks, Asheville NC, 2019
- Volunteer, Energy Savers Network, Asheville NC, 2018
- GIS Consulting pro bono, Friends of Connect Buncombe, Ashville NC, 2017
- Trail Maintenance Volunteer, JMU Geography Club, Harrisonburg VA, 2013
- Phi Kappa Phi, (Graduate Level Academic Honor Society) joined 2018
- Gamma Theta Epsilon, (Geography Honor Society) joined 2012
- Phi Theta Kappa Honor Society, (Associate Level Academic Honor Society) joined 2010