

WILLIAM GANNON

Experienced Geospatial Information Systems Professional
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RELEVANT EXPERIENCE

Sep 2016—Current Geographic Information Systems Technician – New Jersey Resources, NJ

- Led conflation effort of 300,000 Open Source Building features. This Process included:
 - Using GDAL's ogr2ogr program in a python Terminal to convert features to company.
 - Conduct analysis for which new features could be removed based on existing features
 - Create Python script to auto enrich new building features with it's likely address data by analyzing if the buildings centroid is inside a parcel polygon.
 - Appending the enriched features to our Buildings feature layer, this addition helped save time from manual extraction and led to an "Opportunity Main Analysis" to find where in our current service area customers can be added.
- Develop ArcGIS Add-ins with Python to correct attribute and domain errors for Technicians in the QAQC of database changes.
- Digitize Critical Valve data sheets of the Distribution Gas Systems and hyperlink them in our GIS so they can be viewed by all entities with GIS access.
- Produce High Quality maps for Emergency Dispatch, Gas Transmission, and Engineering. Work with engineers to draft various types of plans needed in the construction and permitting of the gas system.
- Maintain and update an accurate geographic information system (GIS) mapping of the Company's physical gas distribution system assets.

Jan 2015—Sept 2016 Geospatial Technician —BAE Systems, NJ

- Collaborate with team to innovate automation of data conflation efforts using Python scripts and built in ArcGIS tools.
- Perform complex planimetric feature extraction. Run multiple Quality Control tasks and programs.
- Performing query statements to confirm correct spatial attribution, running batch checks and other government software for quality control.
- Conflate, assess, integrate, manipulate, exploit, and analyze digital imagery, geospatial databases, and various data sources.
- Attend ESRI 2015 User Conference to explore new technologies and share with the team.

Sept 2014—Sept 2015 GIS Consultant —J. Edwards Consultants LLC, NJ

- Work with Environmental Engineer to produce GIS Submittals from field observations and calculations.

Jun 2013—Aug 2013 GIS Intern—Monmouth County Division of Planning, NJ

- Create High Quality Maps for County Master Plan.
- Research and produce map to show local roads with a history originating from Native American Trails.

RELEVANT SKILLS

- Web: JavaScript(D3, GoogleMaps API, JQuery, React), Java, Bootstrap, HTML/CSS
- Data: PostgreSQL/PostGIS, Python, GDAL/OGR
- Mapping: ArcMap, QGIS, Mapbox, Carto, Leaflet, OpenStreetMap
- Design: Adobe Creative Cloud(Photoshop, Illustrator, Lightroom), PhotoPea
- Project Management: ArcFM, Github, Workflow Manager, Monday

ADDITIONAL EXPERIENCE

- June 2014 – Dec 2014 General Manager—Committed Pig, NJ
- Sept 2009 – Dec 2014 Head Banquet Staff—The Breakers, NJ

EDUCATION AND AWARDS

- Master of Science—GIS Development & Cartography, University of Wisconsin-Madison, April 2020
- Group award for NACIS Student Dynamic Mapping Competition, Project [CarelessDecay](#) Oct 2019
- Bachelor of Science — Urban Planning | Minors in GIS & Geography, Rowan University, May 2014