

Tejay Marsh

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Education

Certification and Associate's: **Geospatial Technologies**, July 2015

Burlington County College, GPA in major: **3.50**

Bachelor's: **Geospatial Technologies**, December 2016

Harrisburg University of Science and Technology, GPA in major: **3.53**

Licensed Remote Pilot

Related Coursework

Advanced Spatial Analysis

Cartography

Fundamentals of Remote Sensing

Fundamentals of Programming I-II

Database Systems

Elements of Climatology

Principles of Macroeconomics

Fundamentals of Global Positioning System

Employment Highlights

GIS Specialist II Cumberland County Department of Planning, Bridgeton, NJ March

2017 - Present

- Designs, develops, coordinates, and conducts computerized geographic information system work relating to the geographic analysis of environmental parameters and/or other factors, image processing, interpretation and application of remote sensing data, and mathematical cartography research; coordinates and conducts the operation and maintenance of computer hardware and software associated with the Geographic Information System
- Completed work towards the county-wide Wastewater management plan
- Assisted the US Census/Demographics department with LUCA (Local Update of Census Addresses) in which the address list of the Census had to be updated with the most recent demolition and construction permits throughout the county
- Assists several departments with the integration of geographic information systems including installation and necessary training

sUAV Pilot Cumberland County Department of Planning, Bridgeton, NJ May

2018 - Present

- Utilizes drone technology to assist departments with planning, maintenance inspections, and conducts inspections of farms under the Farmland Preservation Program
- Current drone used for flights is the DJI Phantom 4 Pro
- Have hands-on experience with drone imagery analysis softwares DroneDeploy and Pix4D

UAV Project Highlights

- Developing a workflow and inspecting farms in the Farmland Preservation Program
- Emergency Management Cell Tower construction progress flights
- Prosecutors Office Roof Inspection
- Dike Revitalization progress flights and finished video

Internships

GIS Technician, Burlington, NJ, Winter, Spring, and Summer 2015

- Started and updated multiple maps and geodatabases used by the County on a regular basis.
- Extensively learned skills necessary for a career in Geospatial Technologies (numerous editing and efficiency tools, created an online interactive map, navigated a county GIS and SQL server, effective cartography and designing techniques so the maps are easier to read and understand).

- Launched an intensive easement project that encompasses the county in its entirety.
- Utilized networking opportunities and learned how to successfully navigate an interview based on skill instead of experience.

GIS Technician, Harrisburg University of Science and Technology, PA, September 2015 – December 2016

- Scanned and uploaded abandoned mine maps for future georeferencing.
- Georeferenced abandoned mine maps to surface features over the Anthracite and Bituminous Coal regions of PA.
- Updated and corrected mosaic feature sets of multiple abandoned mine veins throughout the entire state of PA
- Trouble-shoot mosaic issues with Python coding and corrected the mosaic assembling issues

GIS Technician, Tri-County Regional Planning Commission, PA, September 2016 – December 2016

- Worked with PennDOT on a Curb Ramp Inventory project that ensured all curb ramps within a quarter mile buffer of CAT bus stops are pedestrian friendly, and accessible
- Utilized ArcGIS Online software to download and export feature layers to ArcGIS for Desktop and vice versa

Experiential Experience

Created, started, and completed a sinkhole susceptibility model using drone imagery and analysis techniques.

- Used a Phantom 3 Professional Drone for real time images of the sinkhole and the surrounding area
- Used Pix4d and ESRI's Drone2Map software to analyze elevation data taken from the drone images
- Was able to determine a possible location for a future sinkhole based on contour data and underlying geology of the study area

References

John D. Moore

Director of Geoscience/STEM Education, Palmyra Cove Nature Park, NJ

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Peter Dorofy

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Merrilee Torres

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Transportation Planner/GIS Coordinator

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