# Tarik J. Brown II

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## EDUCATION

**Texas A&M University**                                                                                                **College Station, TX**
**Master of Science Geography**                                                                              **September 2021 - Present**
**B.S. Geographic Information Science & Technology**                                              **Received December 2020**

Relevant Coursework:     GIS Programming
                                            Remote Sensing in Geoscience
                                            Data Analysis in Geography
                                            GIS in Urban Planning
                                            GNSS in the Geosciences
                                            Web GIS
                                            Advanced GIS Practicum

## SKILLS

Remote Sensing, Python, R, Digital Mapping, Cartographic Design, Satellite Imagery and Mapping, GeoJSON, HTML, JavaScript, Information Software, Linear Programming, Team Management, Public Speaking, Presentation

## EXPERIENCE

**Texas A&M Assistant Researcher**                                                                              **College Station, TX**
*Cellular aGPS and RTK 3D Mapping*                                                                              *Feb 2018 – May 2018*

- Comparing the accuracy of the coordinate system of Real Time Kinematic GPS to that of aGPS found in the modern cell phone
- Using geolocation to observe which set of coordinates creates a more accurate 3D model using a Pix4D 3D map creator

*Offshore Pipeline Routing*                                                                                                *Sep 2019 – Dec 2019*

- Researched and calculated the most acceptable locations to install an offshore oil pipe off the Gulf of Mexico
- Investigated economic implications of length, width, direction and location of pipeline route to determine the best and cheapest route
- Used raster data to improve decision making process of offshore pipeline route selection through ArcMap, ArcGIS Pro, and Python
- Adopted Least-Cost Path method by analyzing geospatial features, existing infrastructure, and construction constraints

*Sustainability Model of the Atchafalaya Basin*                                                              *Feb 2020 – April 2020*

- Characterized the water and population systems using ArcGIS to evaluate stability and develop management solutions to improve sustainability over a period of time
- Evaluated temporal sustainability paired with given forcing factors of climate change and urban growth

**Juniper Unmanned**                                                                                                          **Denver, CO (Remote)**
*Raw Data Processor*                                                                                                            *August 2021 – Present*

- Experience with a variety of software including PosPAC UAV, Wingtra Hub, Pix4D, Microstation, YellowScan CloudStation, ArcGIS (Pro), RiProcess, and QGis
- Utilize raw data and transform it into useful products that can be easily consumed with existing software

*Data Analyst*                                                                                                                        *August 2021 – Present*

- Explore multifaceted disciplines to apply to geospatial-urban dynamics, photogrammetry and LiDAR
- Collaborate with processing team to generate deliverables and manage the calibration, classification, and accuracy of received data

**Texas A&M GEAR Lab**                                                  **College Station, TX**

*GIST Researcher & Technician*                                 *November 2020 – Present*

- Utilizing and innovating geospatial technology to study the coupled human-environmental systems, feedbacks, and interactions
- Manipulating GIS data to visualize the changes in flood exposure and examine natural disaster risk with the use of multiple Esri software and python