**ETHAN PETTA**

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<https://www.linkedin.com/in/ethan-petta/>

**EDUCATION**

**The University of Texas at Dallas** August 2018 - Fall 2020

*B.S., Information Technology and Systems* **GPA 3.1**

**Collin College** January 2016 – May 2018

*A.S., Associate of Science* **GPA 3.5**

**TECHNICAL SKILLS**

*Programming: Python, Java, C++*

*Relevant Libraries: Pandas, NumPy, Matplotlib*

*Applications: IBM SPSS Statistics, Apache NiFi, AGI STK 12, MATLAB, Jupyter Notebook, Tableau*

**PERSONAL PROJECTS**

**Tableau Visualization**, Personal Project

Prepared a Tableau visualization by analyzing the user data of thousands of customers of Capital Bike Share to determine maximum usage throughout the year as well as seasonal summaries depicting peak times dependent on weather variables

Technologies (Skill Sets): Tableau, MS Excel

**Data Flow Template Design/STK 12 Simulation**, Personal Project

Developed a data flow template that collected TLE file data from a designated repository to be converted into a CSV file by assembling processors, connections and controllers to route and transform the data into usable orbital elements which was then tested in AGI STK 12 to predict and project trajectories of LEO satellites.

Technologies (Skill Sets): Apache NiFi, AGI STK 12

**EXPERIENCE**

**Griffin Geo Mapping, LLC** – Frisco, Texas November 2017 - Present

*Operator, FAA Certified Remote Pilot*

* Capture aerial footage and imagery via sUAS (Small Unmanned Aircraft Systems) for various services including building inspections, and commercial/real estate showcasing
* Apply photogrammetry software to produce interactive orthomosaic mappings for large acreage examination and visualization
* Utilize digital editing software to prepare filmed and imaged final products for marketable purposes

**United States Marine Corps** – DFW, Texas October 2012 – October 2016

*Aviation Ordnance Systems Technician, Reservist*

* Performed required inspections, tests, checks and adjustments on support equipment
* Maintained missile launching equipment, multiple ejection/bomb racks, aircraft guns, turrets, aerial targets etc.
* Reviewed quality assurance testing on a wide variety of highly technical aircraft armament weapons systems