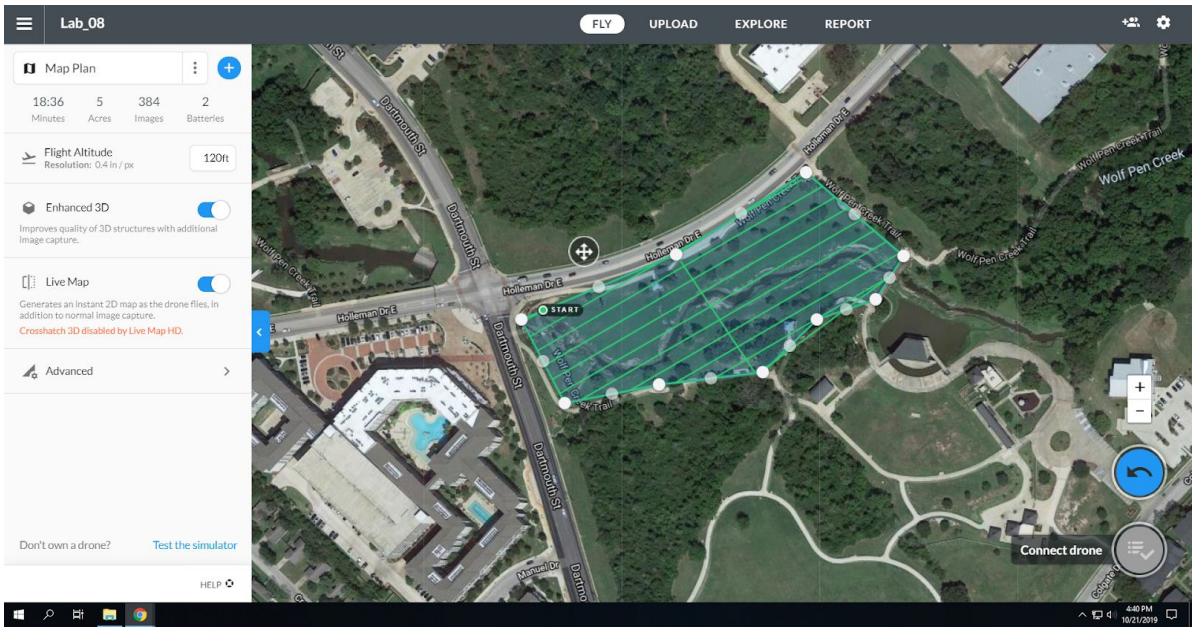
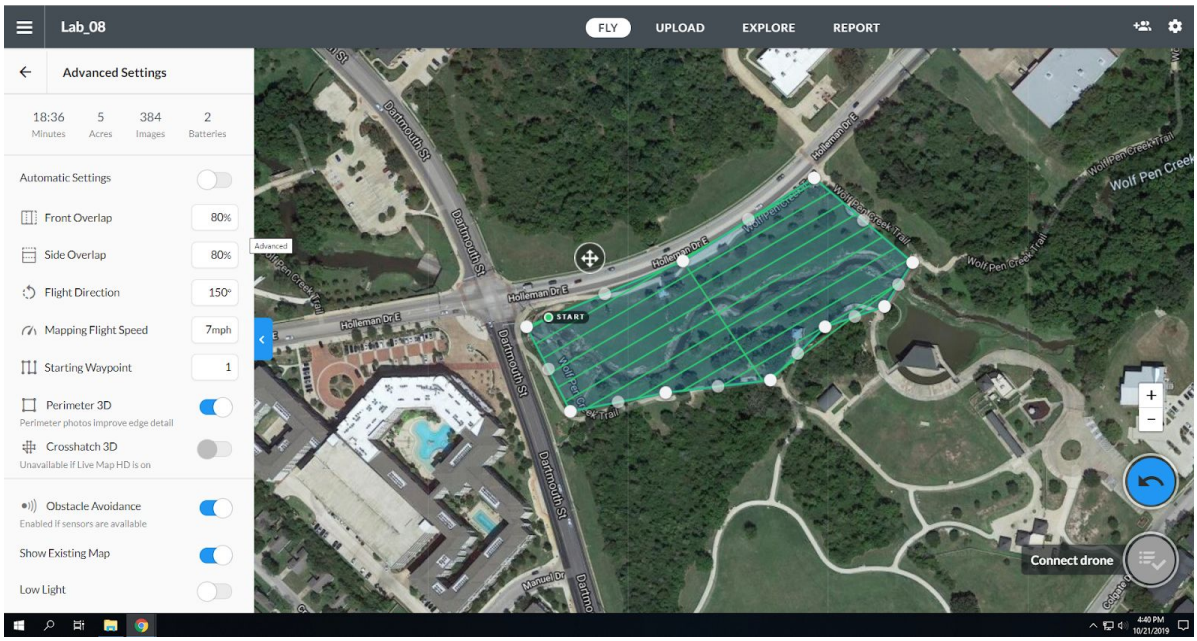
LAB 8 SUBMITTAL
By
Tram Nguyen

PART – 1 Design Mission Plan (10 pts.)

A. 5pts Spatial Resolution = 0.4 in / px.

B. 5pts Screenshot of Flight Area and Advanced Settings.

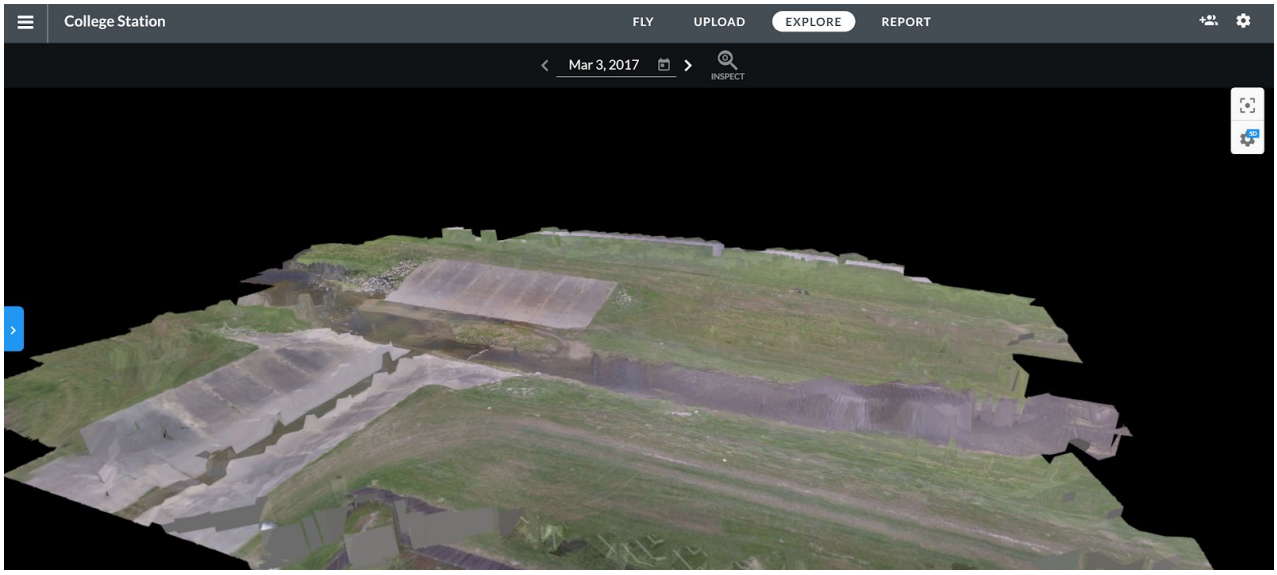


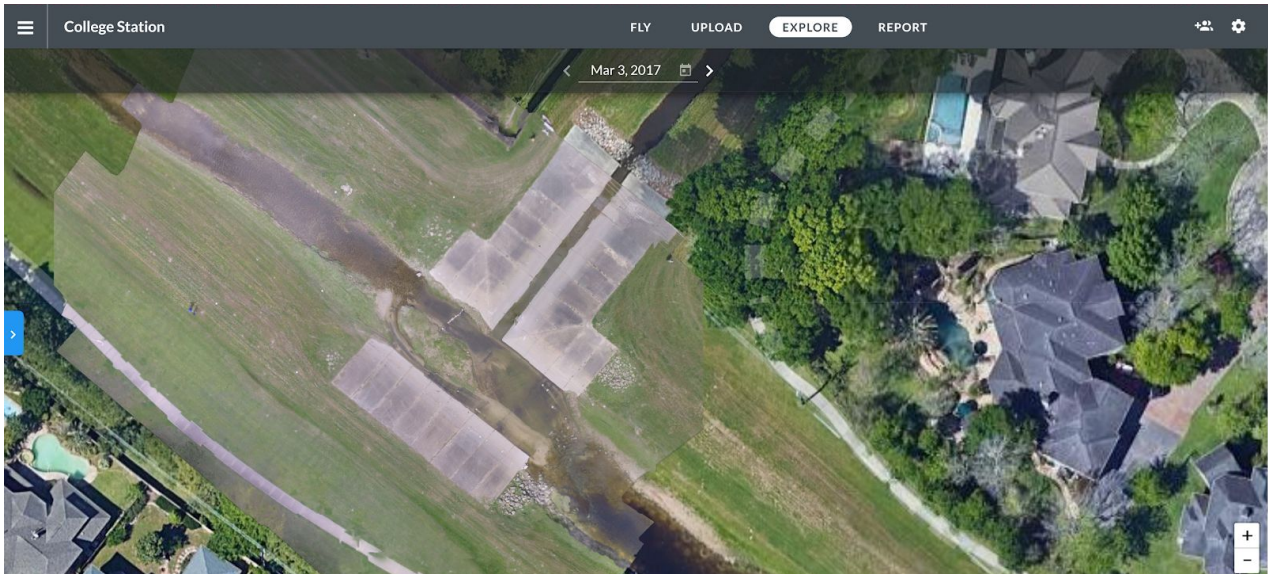


PART – 2 DroneDeploy Process Imagery (40 pts.)

Screenshot of:

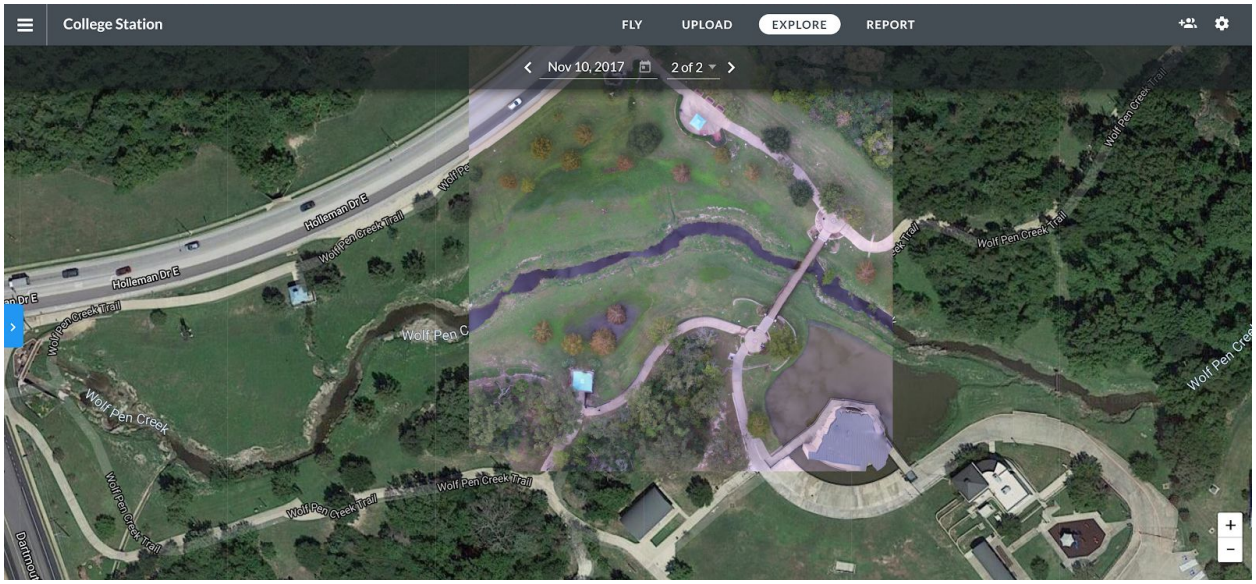
A. 8pts A-JOB: 3D Model and 2D Map (Orthomosaic)

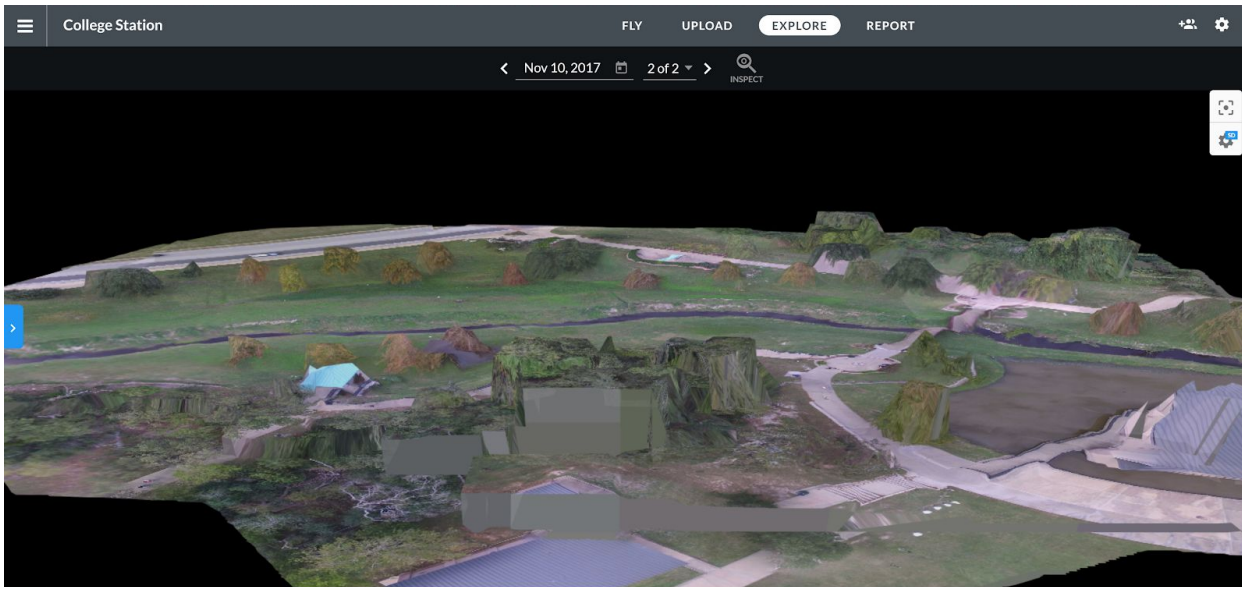




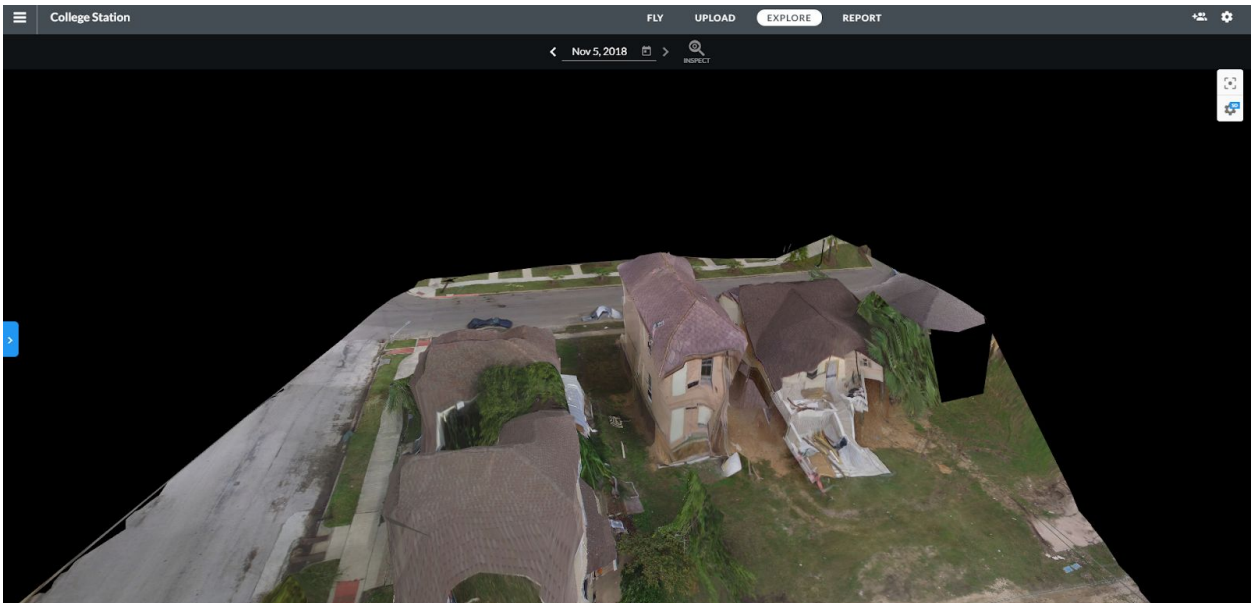
B. 8pts Lampasas: 2D and Plant Health Image (you may have to adjust the plant health threshold to clearly see the vegetation specifically .2-.4 to see Ash Juniper or Texas Cedars).

C. 8pts Wolf_Creek: 3D Model and 2D Map (Orthomosaic)





D. 8pts Galveston: 3D Model.



PART – 3 Cloud Pix4DMapper Process Imagery (20 pts.)

Screenshot of:

A. 10pts 3D Model of J_Davis

PART – 4 (30 pts.)

Questions:

1. (5 pts.) When would a drone operator need to have an FAA 107 Remote Pilots License?

- When the operation is conducted within the US

2. (5 pts.) What are 3 limitations for flying a drone under a FAA 107 license without an additional waiver?

- Visual observer
- Daylight operation
- Yielding right of way

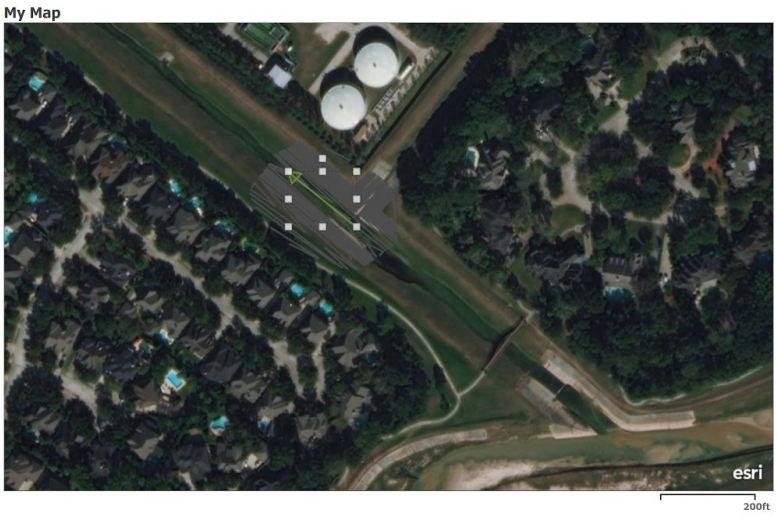
3. (5 pts.) What are some of the disadvantages of using a Point Cloud vs a DSM? And what benefits does a 3D point Cloud Provide that 2D DSM would not?

- Point Cloud takes a longer time to process within the software, meanwhile a DSM provides faster results. However, a 3D Cloud provides better and more information. A 2D DMS provides less information.

4. (5 pts.) What is the elevation…?

- 3 m

5. (5 pts.) Based on the contours…?



6. (5 pts.) Industry demands… effective and environmentally friendly location to build a bridge across this ditch? Explain? Provide an image...

The bridge should be built roughly where elevations are the highest so people can have more access and transportation are made easy.