**3/18/2022 Meeting Notes**

1. Get Prof William Michael to help with Logistics
2. Send biweekly updates to Dr. Semiari and meet if we run into problems

**GOALS**

1. Enable a VR Device to connect to a network
   1. Connect to a Wi-Fi router
   2. Can be split rendering or Digital twin
      1. Computer does most of the processing
         1. Computer can be stand alone
   3. May need to use video compression
2. Preserve the VR Device battery (longer life span)
3. VR Device must be Microsoft HoloLens
4. System can be applied to robotics in the future
5. Utilize software Unity
6. Evaluate performance of the processing
7. Create an app
   1. The VR device will view objects in the room
   2. The computer will process the information
   3. Objects will be labeled and viewed on VR device

**ITEMS NEEDED**

1. A router

a. Try a traditional router first

b. Can possible use Millimeter wave

2. A computer that will be connected to the router

3. Microsoft HoloLens

**Resource Links:**

* <https://docs.microsoft.com/en-us/windows/mixed-reality/develop/unity/unity-development-overview?tabs=arr%2CD365%2Chl2>
* <https://docs.microsoft.com/en-us/hololens/hololens1-hardware>
* <https://uccsoffice365-my.sharepoint.com/personal/jbrock3_uccs_edu/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fjbrock3%5Fuccs%5Fedu%2FDocuments%2FMicrosoft%20Teams%20Chat%20Files%2FHoloLensSpecSheet%2Epdf&parent=%2Fpersonal%2Fjbrock3%5Fuccs%5Fedu%2FDocuments%2FMicrosoft%20Teams%20Chat%20Files>