

Progress summary #2 - Orion Gonzales

Completing the Goals I previously set, the AR (Augmented reality) project can now be used in any location without being plugged into a PC or a laptop. Additionally, it now will tell you what SSID or network name you are currently connected to, the BSSID or the access point of the network, and the signal strength in dBm which is decibels regarding one milliwatt connection to wifi for Androids with being -67dBm being almost full signal and great service and -80dBm which means no connectivity or almost none. The recording for presentation sake would have to be connected to my PC to be able to show the augmented reality due to Meta Quest 2 Privacy terms and agreements not allowing the cameras on themselves to have the ability to record. Finally, I added a screen UI that follows the user to display the new connectivity status every 6 seconds when they walk or scan an area.

Further on, I hope to add and configure a system of cubes (for now until detailed graphics can be added) that would be placed every time the user walks around, and the next time they launch the program, it will keep the data. The cubes would display their color based on the dBm strength along with the time, signal strengths, and access points of creation when the user interacts with them. Along with the creation of the cubes, there would possibly be a manual creation of the cubes if the user wants to make their notes in a certain area, such as room numbers, experimental notes, etc. For the last goal, after figuring out how to script the cubes to be created along with every update, if the BSSID would connect, a different type of shape such as a pillar or cylinder could be made alongside to show the differences of access points.