Our design goals are as follows

Overall : Create a DNN based sensor fusion technique for tracking the user of a HoloLens 2 device

Subgoals:

1. Create Unity app for HoloLens 2 Internal Sensor Data Gathering, that also records what the current tracking gives as position
2. Use python to create a DNN model that can predict headset position given sensor inputs
3. Train model using sensor data successfully (once evaluation has started, we will define a margin of error which we will attempt to keep within)
4. Evaluate the effectiveness of our system Vs. what is used in the current tracking method
5. Graph and display results visually using Matlab

Stretch Goals:

1. Run our DNN model on the HoloLens 2 in real time (may have issues with compute time)
2. Investigate other ML solutions such as CNN applications
3. Create a rendered video for demonstration