UCLA ECE M202A (Fall 2019). Project MREable Data Collection User Form:

Your height:	inches/feet/m	neters	
Your weight:	kg/lbs		
Your age:	years		
Height of ears from t	op of table (to be me	easured by data collector):	inches
Look around the room them? (YES/NO)	n, can you see the bl	lue and the green sticky notes wi	th the numbers on
with your eyes initial	ly fixed towards the	to move your head towards a pa origin. The origin is the green co particular target at any speed you	olored sticky note. You

- Wear the cap. Inform the collector to start data collection.
- Nod your head horizontally in "No" motion three times and vertically in "Yes" motion three times (this is to sync the OptiTrack system with the e-sense system). Collector will show how to do it efficiently. Say the word "Starting one" when you start nodding your head.
- Start with your eyes fixed at the origin for 2 seconds. (step 1)
- Move your head towards a target. (step 2)
- Keep your head fixed at the target for 2 seconds. (step 3)
- Move your head back to origin. (step 4)
- Repeat the above steps (steps 1 to 4) for the following transitions (origin target origin). If you can't see a number, make sure your point it out to the data collector before starting the experiment.

Targets:

2

Once you're done (make sure your head is fixed towards origin, inform the data collector without moving your head). Don't remove cap or earables. Collector will stop data collection.

Part 2: In this session, you will be asked to move your head towards multiple particular targets (blue) with your eyes initially fixed towards the origin. The origin is the green colored sticky note. You will move your head from the origin to a particular target at any speed you like. Say the word "Starting two" when you start nodding your head.

- Nod your head horizontally in "No" motion three times and vertically in "Yes" motion three times (this is to sync the OptiTrack system with the e-sense system).
- Start with your eyes fixed at the origin for 2 seconds. (step 1)
- Move your head towards a target X. (step 2)
- Keep your head fixed at the target for 2 seconds. (step 3)
- Move your head towards another target Y. (step 4)
- Keep your eyes fixed at the target for 2 seconds. (step 5)
- Move your head back to origin directly. (step 6)
- Repeat the above steps (steps 1 to 6) for the following transitions (origin target target origin). If you can't see a number, make sure your point it out to the data collector before starting the experiment.

Target X and Y:

7	3
1	6
2	5
3	4
9	8
10	18
18	13
14	11
22	17
19	12
21	25
15	27
27	10
27	19
10	19
16	17
20	21
6	4
14	22
25	27
11	18

Once you're done (make sure your head is fixed towards origin, inform data collector without moving your head). Don't remove cap or earables. Collector will stop data collection.

Part 3: In this part, we are gonna collect some human activity data. You don't need the cap at this time. We will use a phone camera to record ground truth (we will not share the ground truth with anyone to protect anonymity). The activities shall be:

- Walking
- Jogging
- Jumping
- Climbing Stairs
- Sitting
- Laying Down
- Standing
- Falling
- Moving the head (already recorded during head-pose data collection)
- Turning Left
- Turning Right

Make sure the earables are inside your ears.

Walking:

Walk randomly in the corridor at roughly uniform pace for 30 seconds. You are allowed to turn if path ends but don't stop. Collector will time the readings. When you're done, wait for 5 seconds before moving to next activity.

Jogging:

Run/Jog in the in the corridor at roughly uniform pace for 30 seconds. You are allowed to turn if path ends but don't stop. Collector will time the readings. When you're done, wait for 5 seconds before moving to next activity.

Jumping:

Stay at one spot and jump until the collector says 30 seconds are up. Try to jump in various ways. When you're done, wait for 5 seconds before moving to next activity.

Standing:

Remain standing in some spot for 30 seconds. Don't move a lot. When you're done, wait for 5 seconds before moving to next activity.

Turning left:

Stand in a certain position and then turn left. Wait for 1 second. Turn left again. The motion will correspond to something similar to rotation. Do this for 30 seconds total (collector will time). When you're done, wait for 5 seconds before moving to next activity.

Turning right:

Similar to turning left, just turn in opposite direction. When you're done, inform instructor, he will stop data collection.

Climbing Stairs:

Collector will take you to a staircase zone. You will climb up the stairs and then climb down. You shall do this for 30 seconds. When done, inform collector, he will stop data collection.

Sitting:

Sit in the chair presented for 30 seconds. You may move your hands slowly in natural way when you sit. Collector will time the readings. When you're done, wait for 5 seconds before moving to next activity.

Laying Down:

Lay down in sleeping motion on the sofa for 30 seconds. You may lay down flat or on your sides but not both. Don't move after laying down.

Lay flat? (YES/NO)

Lay on side? (YES/NO).... If YES, on which side? (LEFT/RIGHT).

When you're done, wait for 5 seconds before moving to next activity.

Falling:

We have a soft sofa inside the lab. To simulate falling, stand near the sofa, then drop yourself on the sofa (don't need to put too much weight on the sofa during falling). Afterwards, recover yourself and repeat. Do this for 30 seconds. When done, inform collector, he will stop data collection.

I provide my consent to use the gait data for research purposes and acknowled	ge that the
researchers shall protect my identity and ensure anonymity.	