1. Wood frame
2. Pant
3. Pipe
4. Glue st*ck*
5. head

12x24 inch long wood frame

Mouth and camera stand will be 12 inch center point

Mouth stand: 10 inch

Mouth platform: 6 inch

Robot to mouth stand distance: 7 inch

Camera stand: 17 inch

Camera platform: 7 inch

MC logic

1. MC will for camera ready.
2. human detect
   1. give response
   2. take cotton bar
   3. plz open mouth
3. mouth open
   1. take position in front of mouth
   2. check moth is open or not
   3. collect sample
   4. put cotton bar on box
   5. put box to exit point
   6. UV on
   7. UV off
   8. Msg: successfully done

MP logic

1. Send cmd CRAL to MC
2. If human detect HD else NHD
3. If mouth open then MO else MC

1: 90 70(r) 110(l)

2: 70 80(f) 60(b)

3: 90 110(b) 80(f)

4: 110(f) 60(b)

5: 140(c) 80(o)

2: 60

3: 180

5: 135

Left ctton take

1: 180

3: 0

4:110

5:135

3:120

4:80

Put cutton

1: 0/180

2: 70

3:45

4:150

5: 80

Take box

3: 10

4:120

1: 5

5: 138

3:60

1: 40

3: 15

5: 80

3: 90

1: 90

Take sample:

4: 160

, {2, 100},{3, 150}, {2, 140}, {3, 165}

{3, 130}, {2, 110}, {3, 150}, {2, 140}, {3, 165}, {2,125}, {3, 150}, {2,110},

box

LCD 16x2

UV ray

Cotton bar

ARM base

Box out line

mouth

camera

circuit

pump

Raspberry pi

J