Function Description

1. Power up Sequence

initialize RGB and Display

Check Power supply voltage by LEDs

Testing Motor with Rotate back and for

Testing Front Ultrasound ?????

Switch to standby mode

2. Standby mode (flashing double blue LED)

Time out for 3 mins, mode switch to auto mode

Detect any clap within 3 mins switch to command mode

"Invalid Clap" detect switch command to stand by mode.

3. Command mode (flashing double white LED for 5 times and turn off all LED)

Testing function of Robot by clap detection.

clap count 1 == Motor FWD

clap count 2 == Motor REV

clap count 3== .............

Motor cooperate with obstacle detection

Time out without any clap detected and return to initial mode

4. Auto mode (flashing double green LED)

Robot will behave autonomously

Move around with obstacle avoiding

Battery voltage detection alarm with power down sequence

Analog output of sound level trigger “Dance” Action, car turn to and back

Any clap detected return to initial mode