

# First Report

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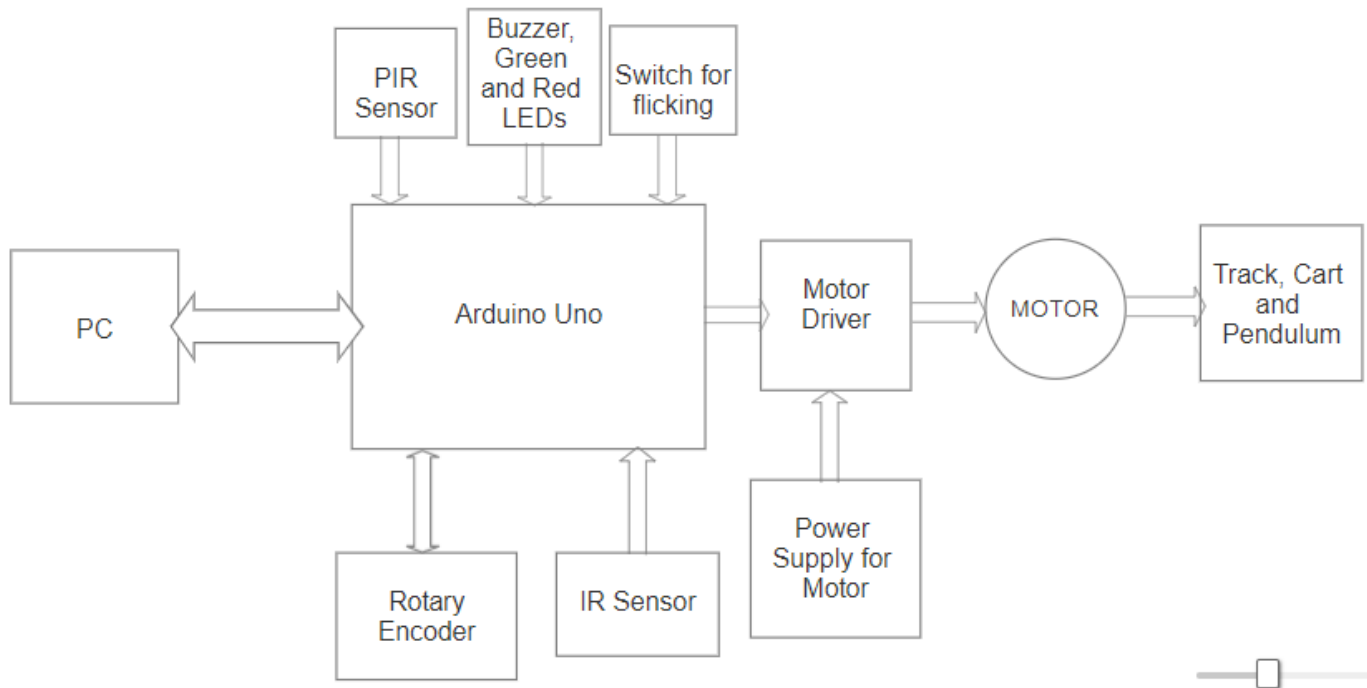


Fig: Block Diagram of Invented pendulum control using a linear motor

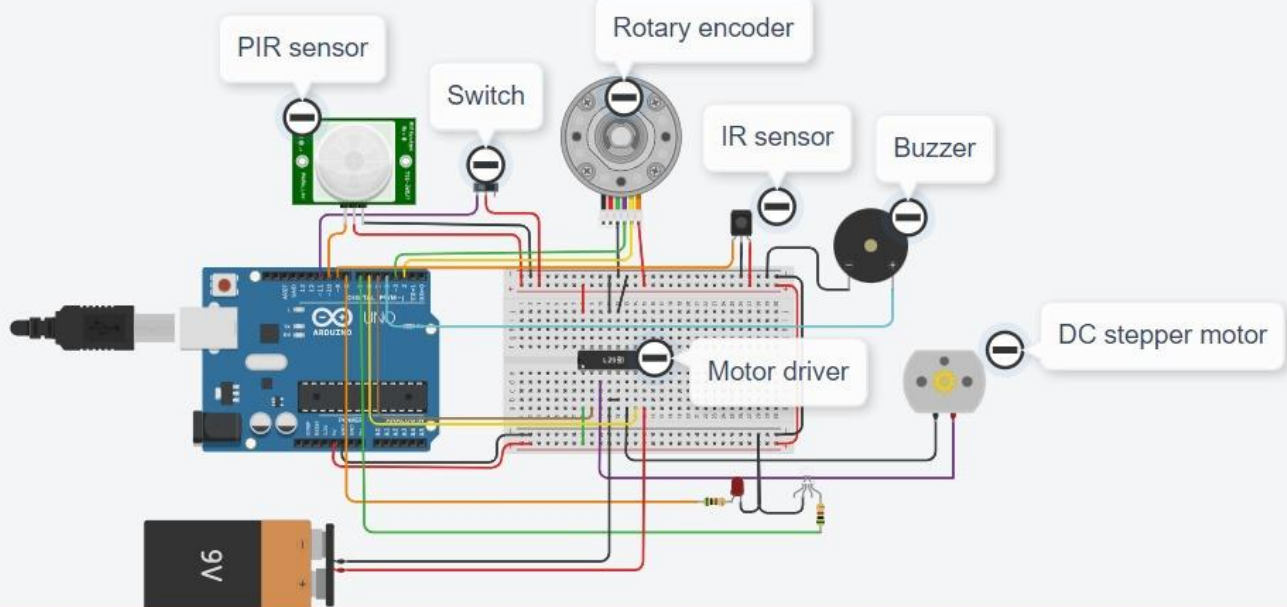
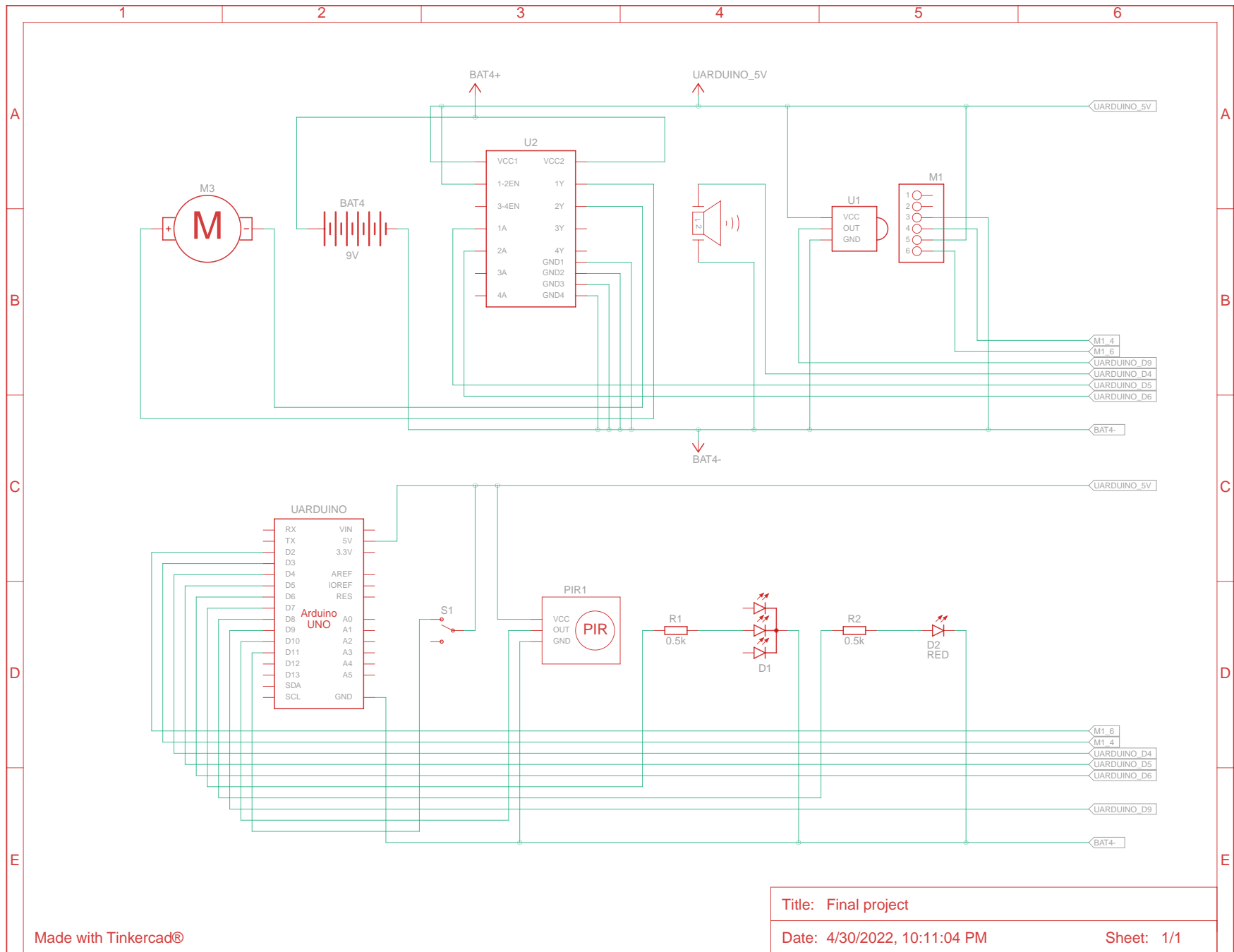
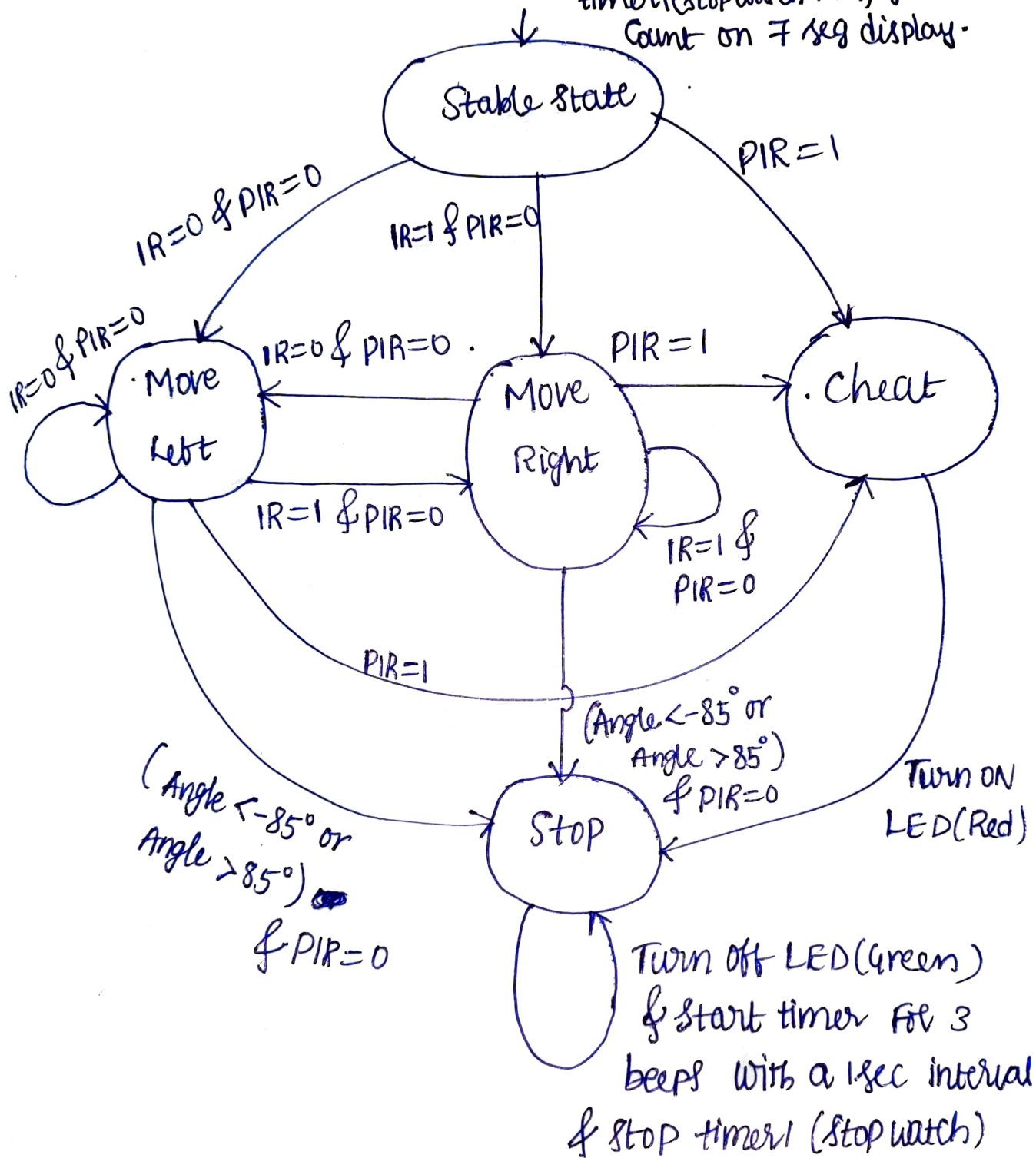


Fig: Circuit Diagram



## State diagram for Game

Turn ON LED(Green) & start timer for 2 sec beep from buzzer & start another timer (stopwatch kind) & display time Count on 7 seg display.

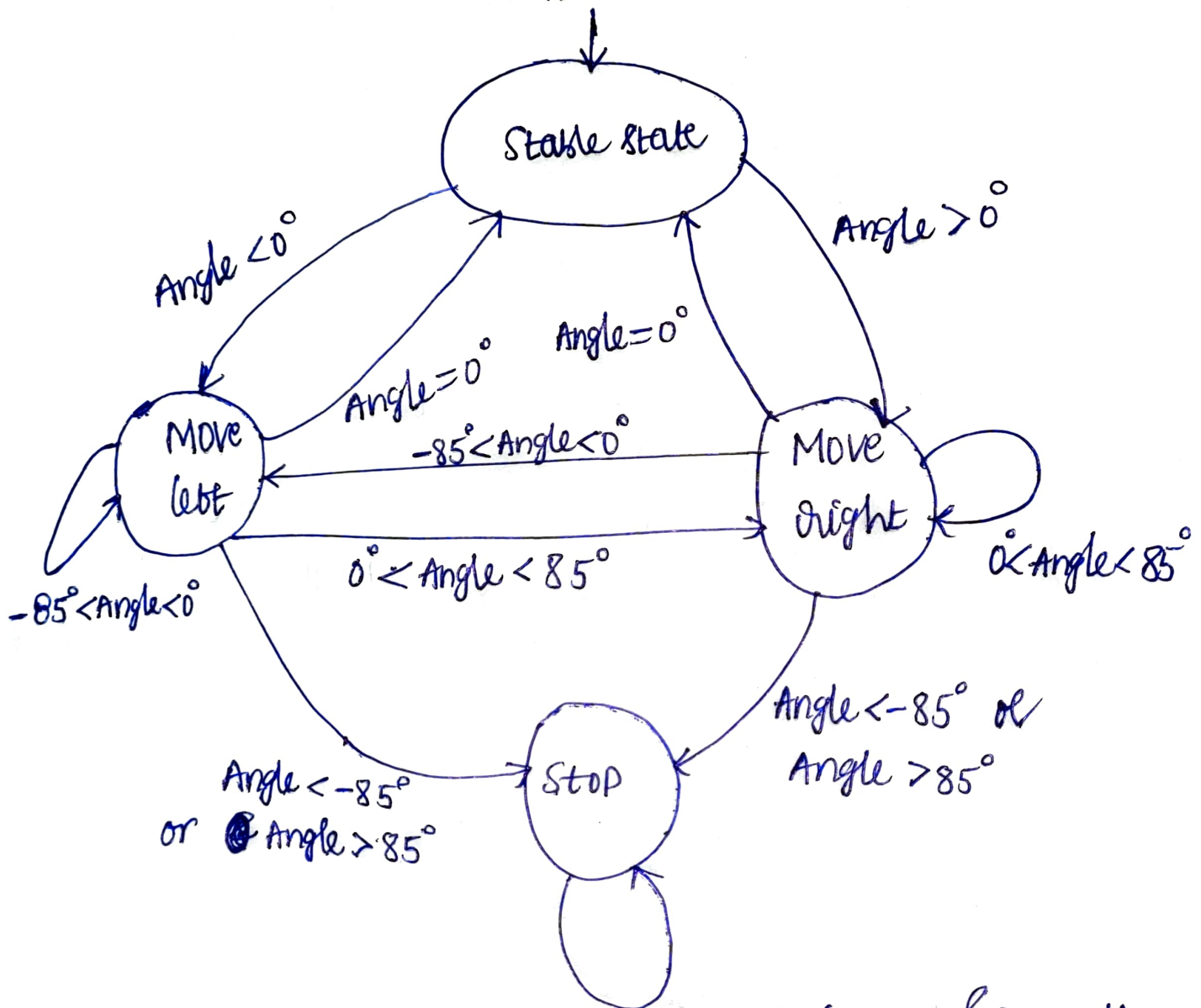


Note:

PIR=1 means there's human presence (cheating)  
(it's PIR sensor status as detected) else 0.  
Similarly IR also detected.

## State machine for automated

Turn ON LED (Green) & start timer for 2 sec beep from buzzer.



Turn OFF LED (Green) & start timer for 3 beeps, with an interval of 1 sec. for 1 sec

Note: In case of automated machine there's no possibility of entering into stop state (Ideally without any external factor dependency), but practically may go due to any external disturbance.