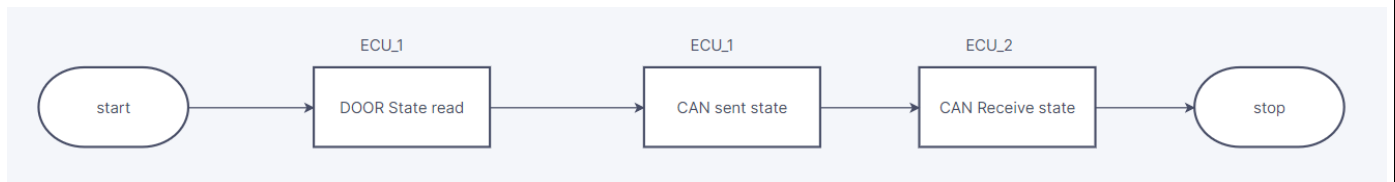


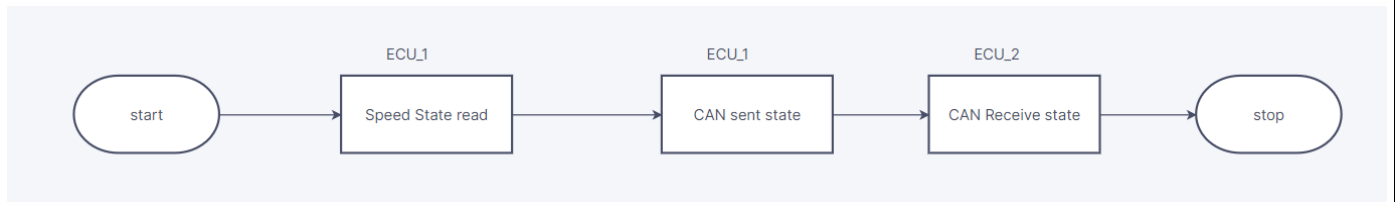
ECU 1

1- State Machine Diagram for each ECU Component

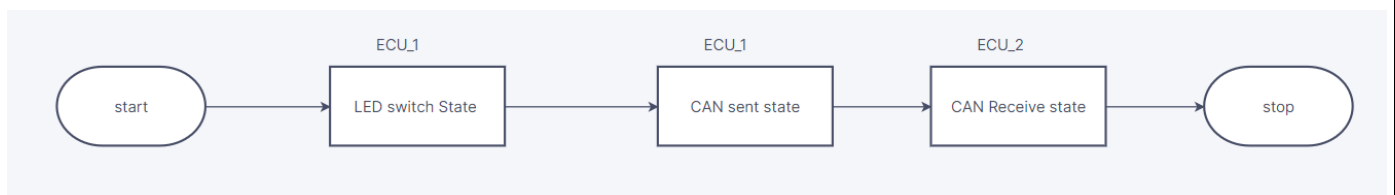
- Door:



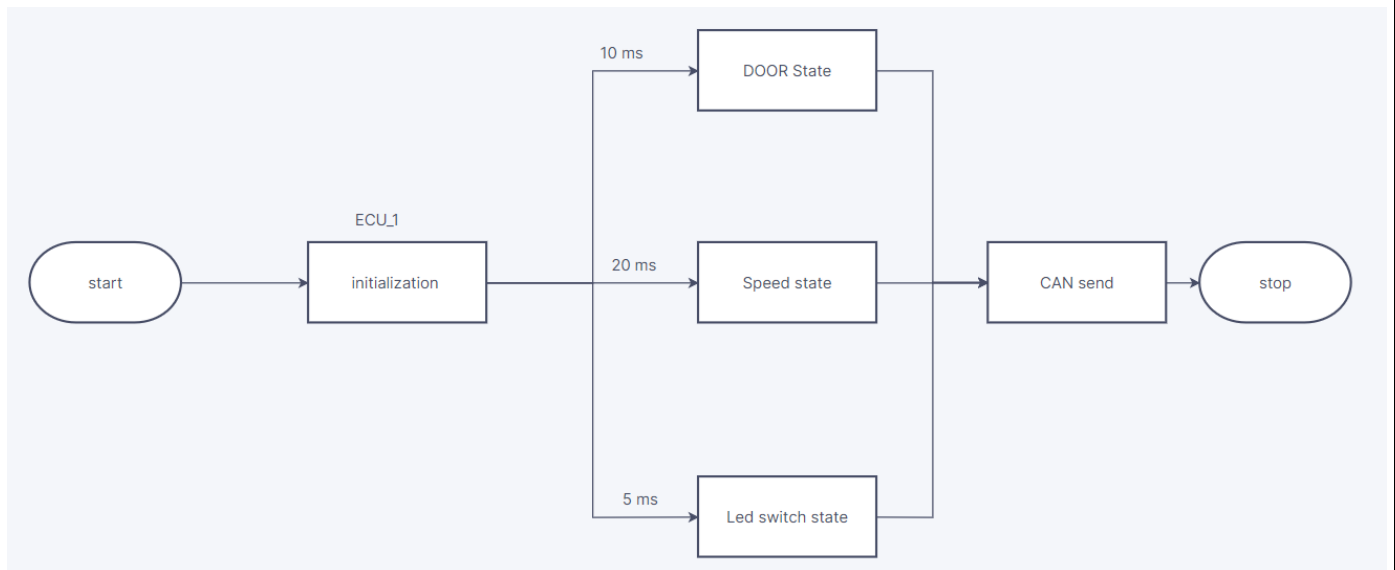
- Speed:



- Led Switch:



2- State Machine Diagram for the ECU operation

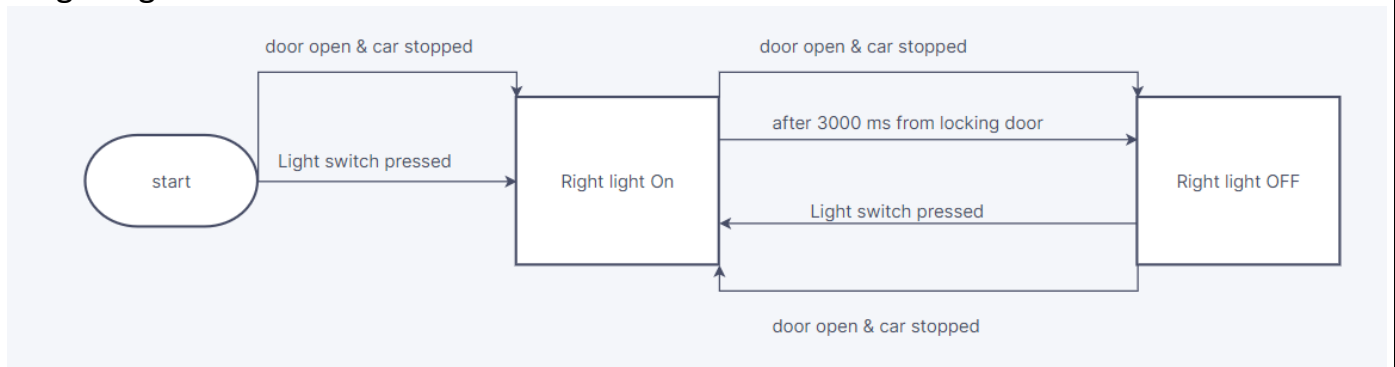


3- CPU load for ECU 1 = Busy Time/ Total Time = 80/100 = 80%

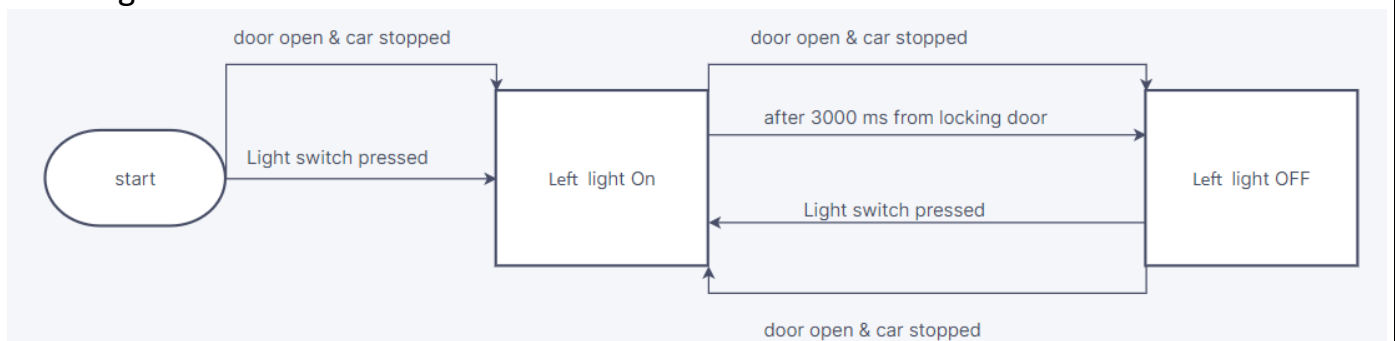
ECU 2

1- State Machine Diagram for each ECU Component

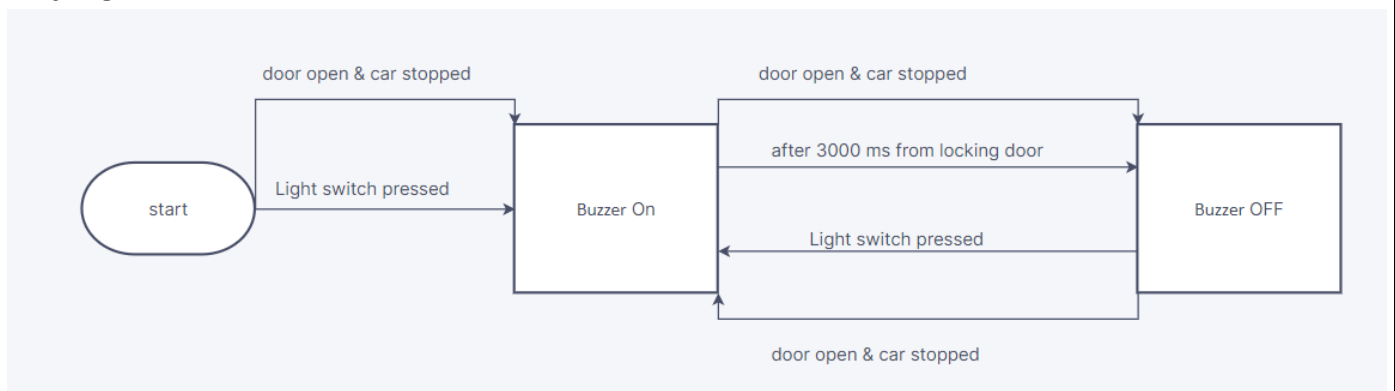
- Right Light:



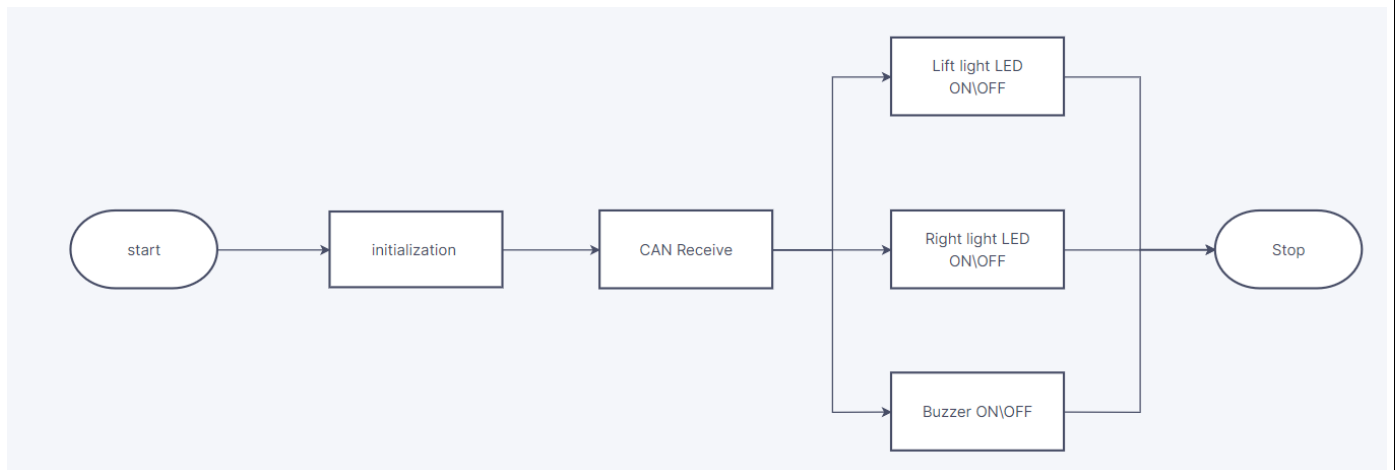
- Left Light:



- Buzzer:



2- State Machine diagram for the ECU Operation



3- CPU load for ECU 2 = Busy Time / Total Time = 80 / 100 = 80%