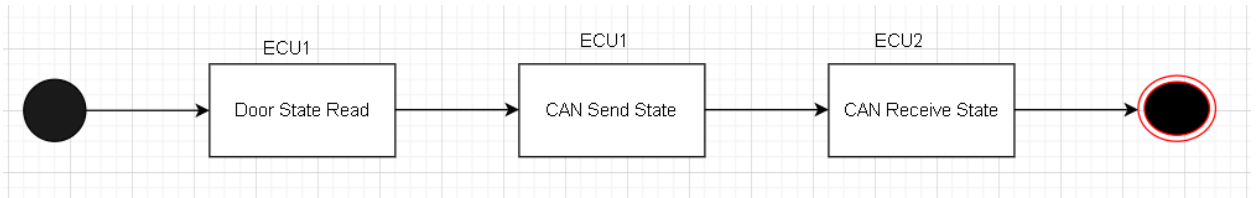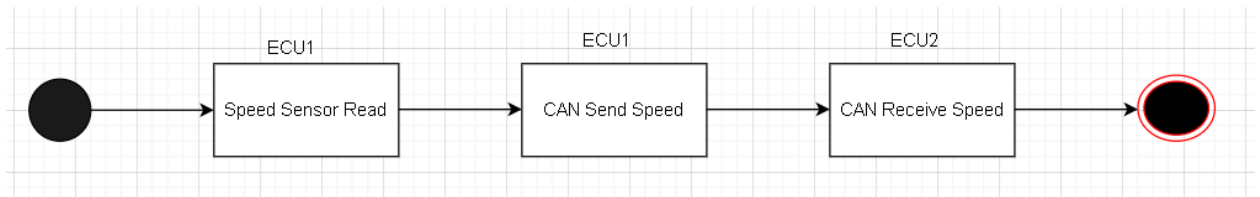ECU1:

1- State Machine Diagram for each ECU Component
   - Door:
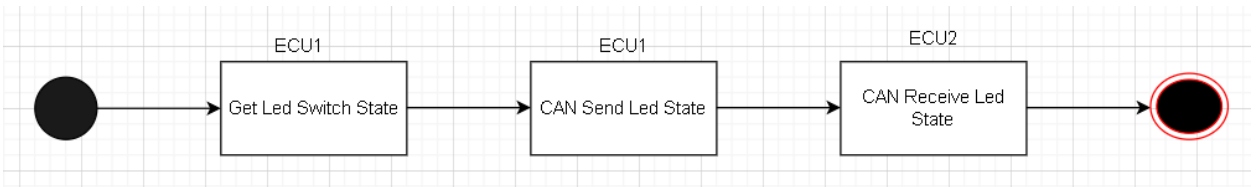

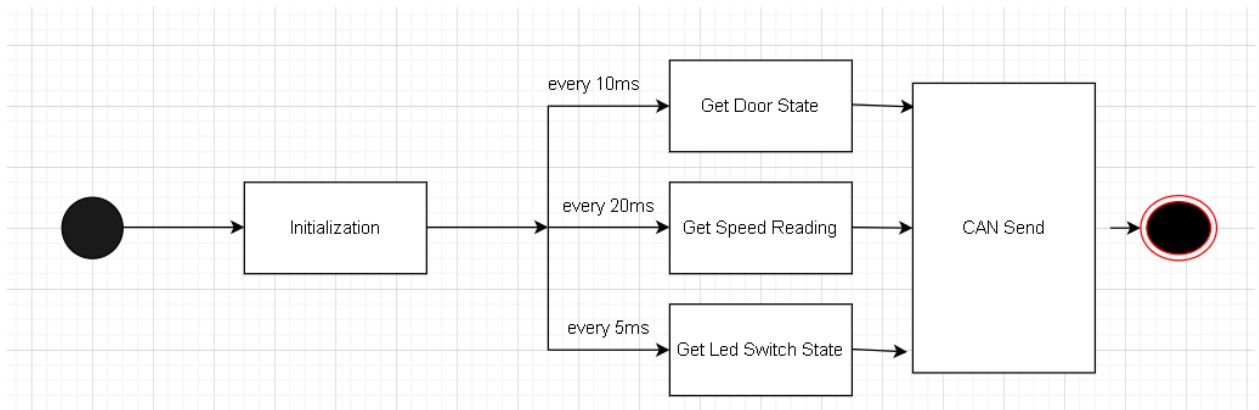   - Speed:
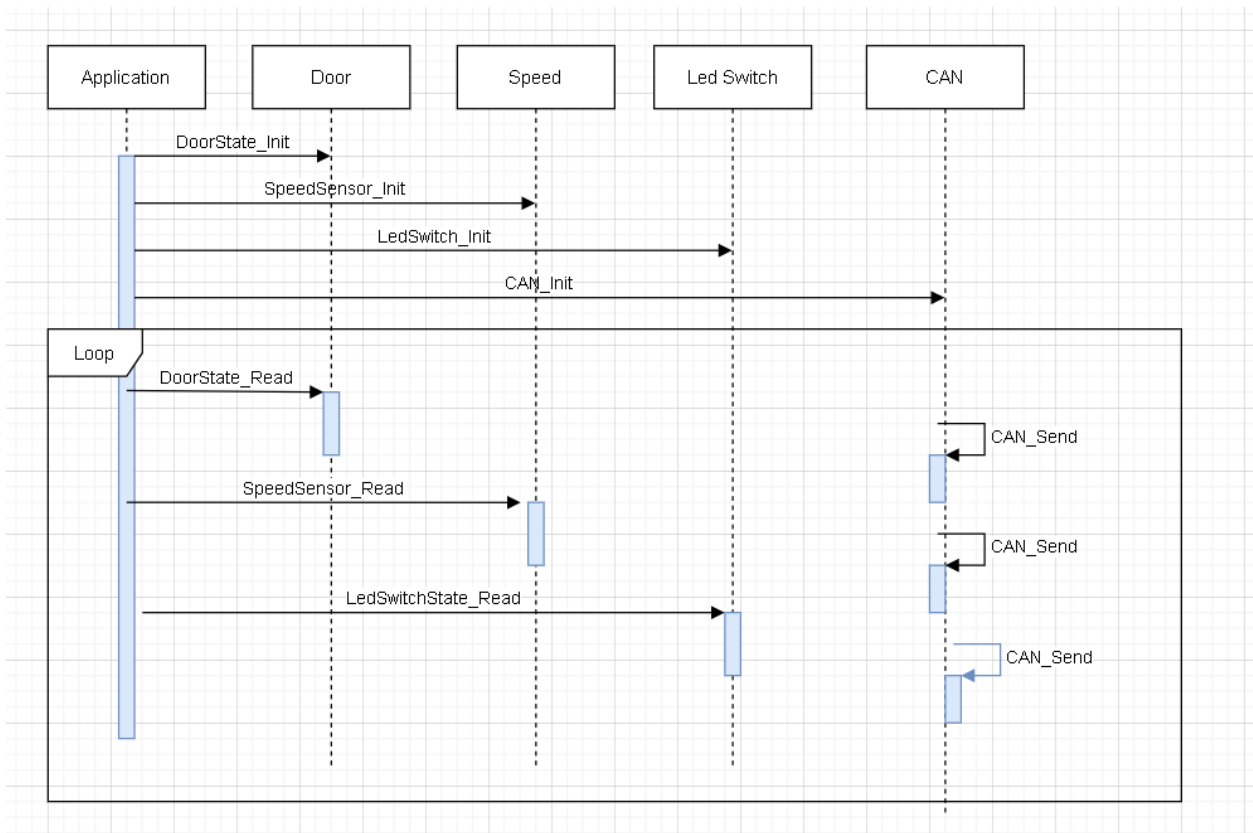

   - Led Switch:

2- State Machine Diagram for the ECU operation

3- Sequence Diagram for ECU 1:
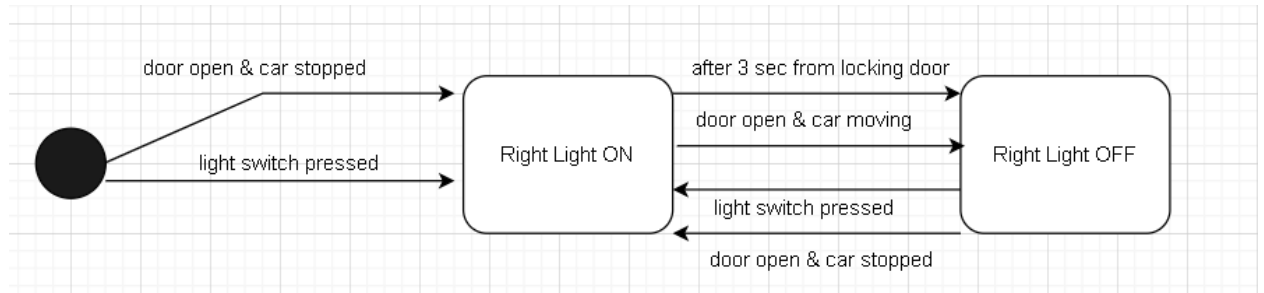

4- CPU load for ECU 1 = Busy Time/ Total Time = 80/100 = 80%
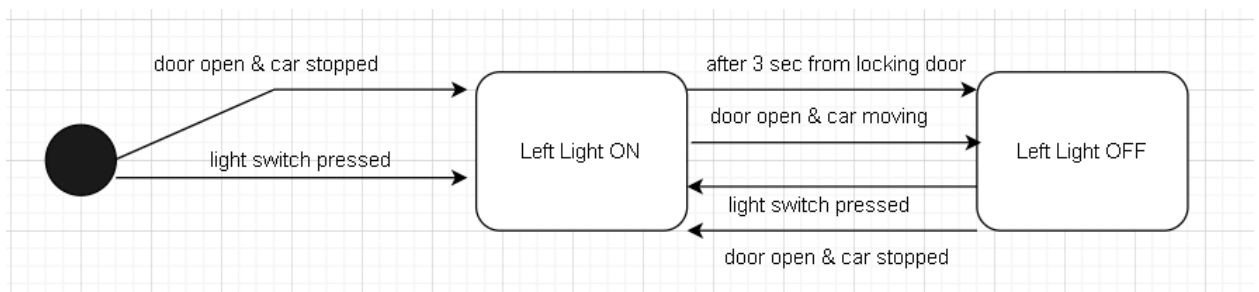
<u>ECU 2:</u>

1- State Machine Diagram for each ECU Component
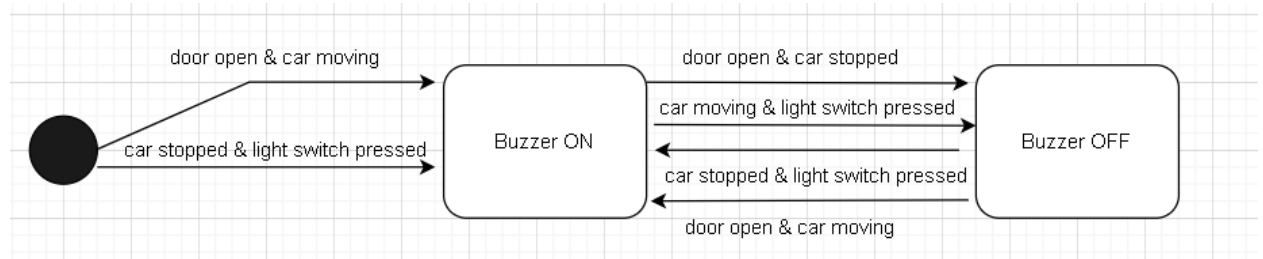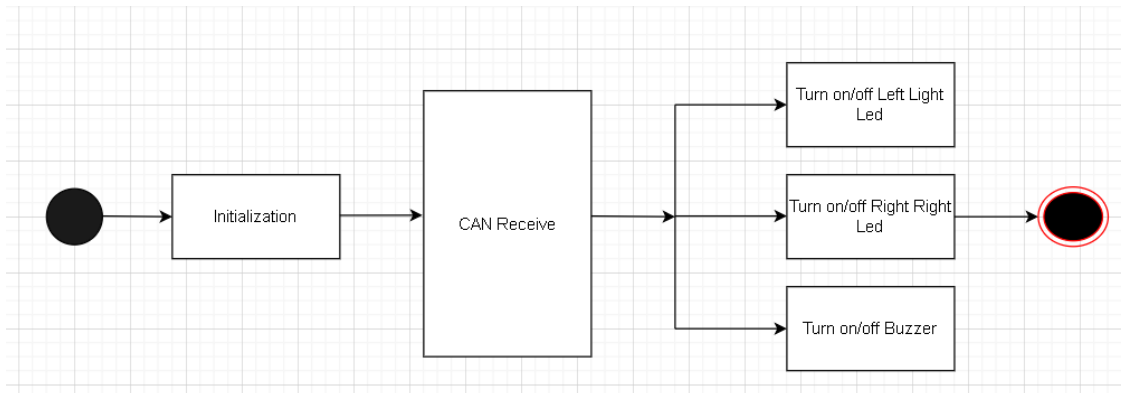 - Right Light:

  - Left Light:
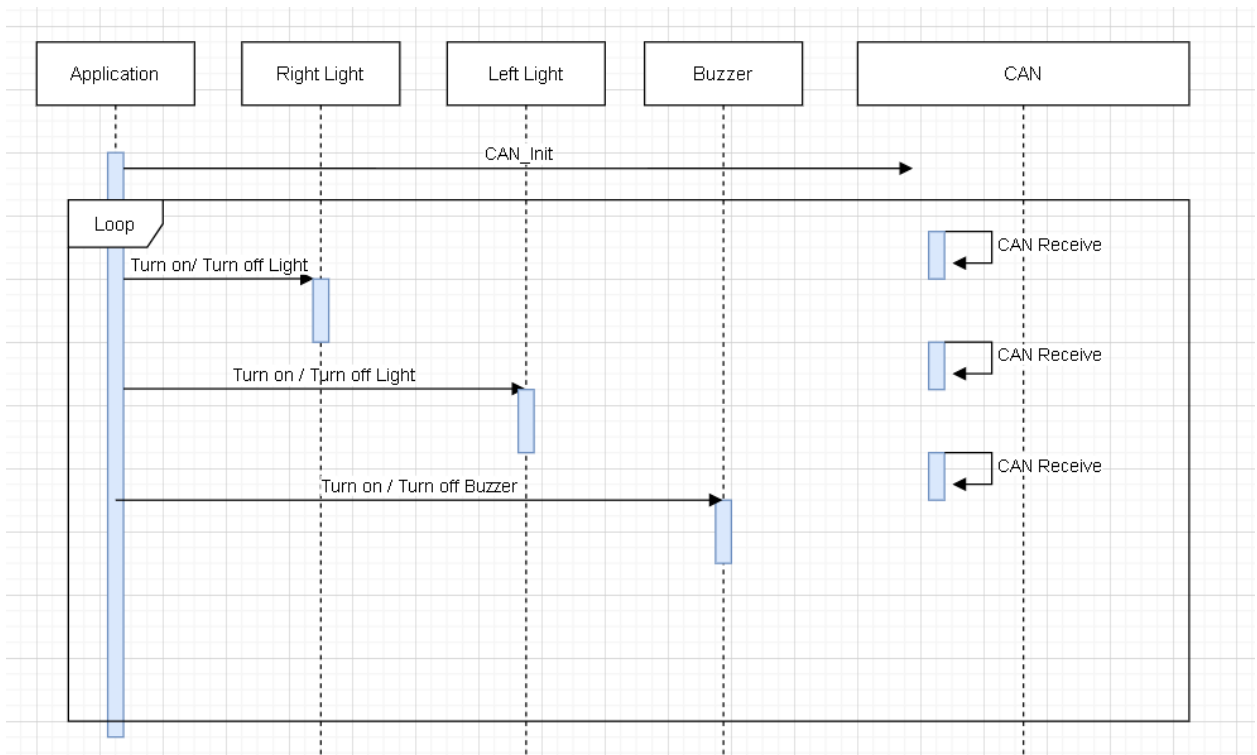

  - Buzzer:

2- State Machine diagram for the ECU Operation

3- Sequence Diagram for ECU 2:

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