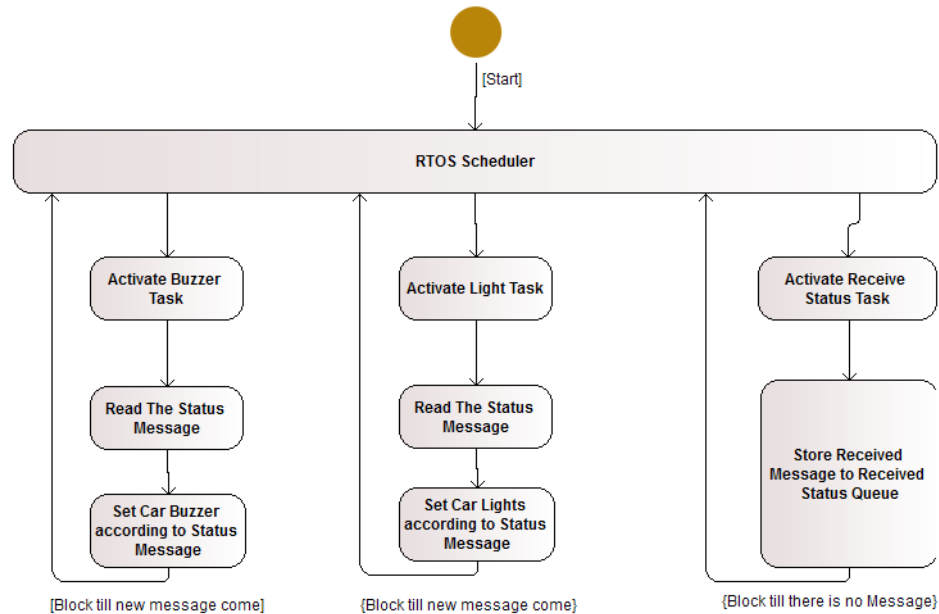
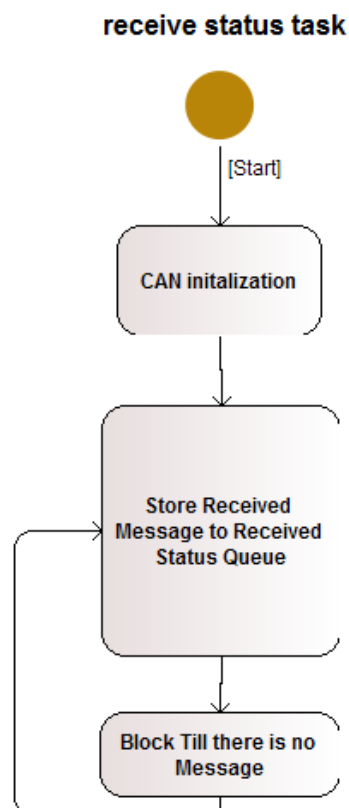


Dynamic design analysis ECU2

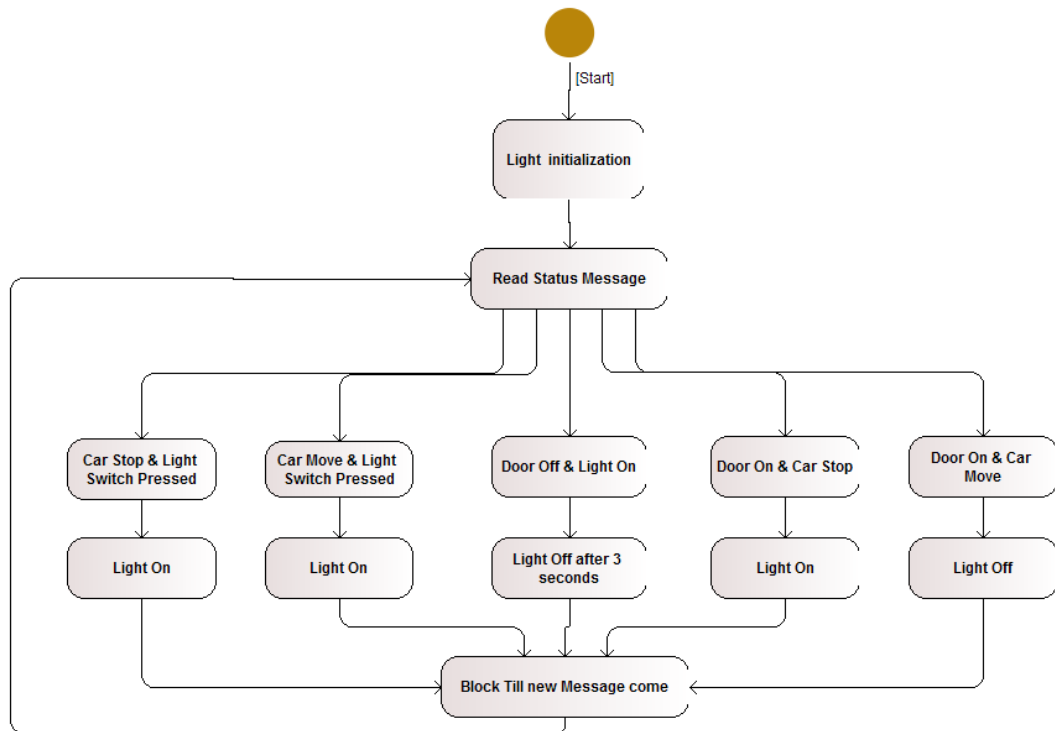
- State machine diagram for ECU2 components



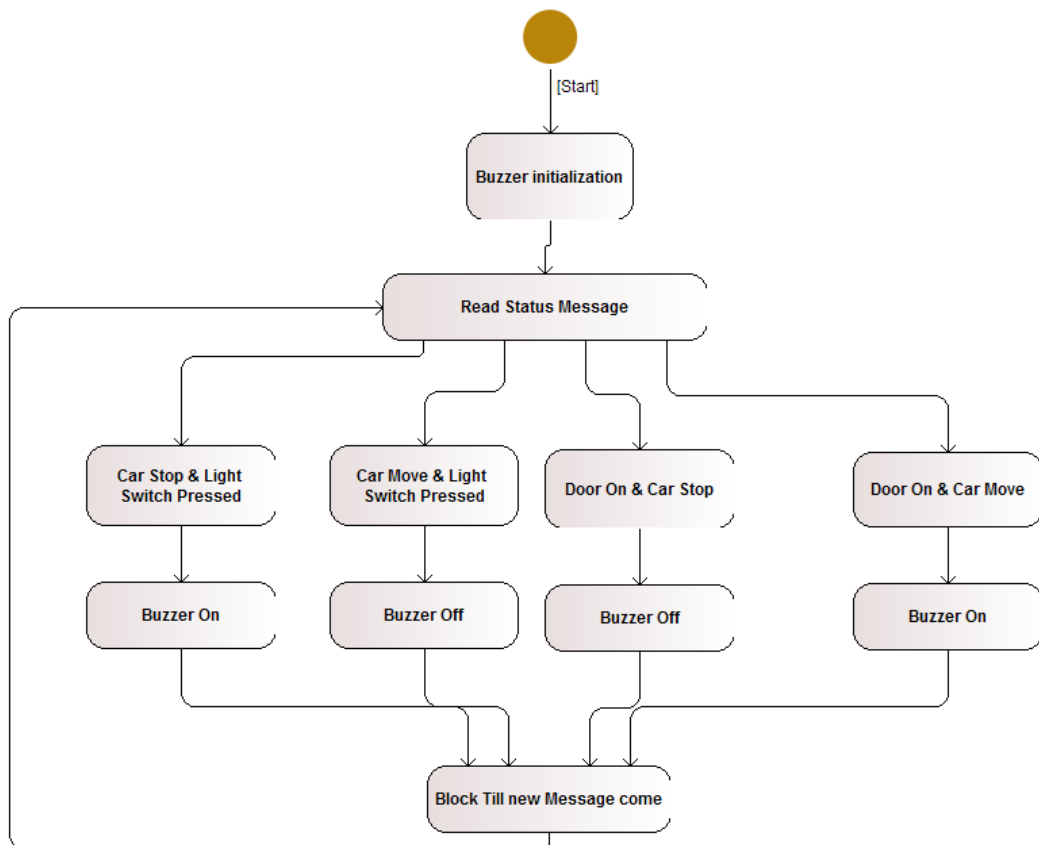
- State machine diagram for ECU2 operations



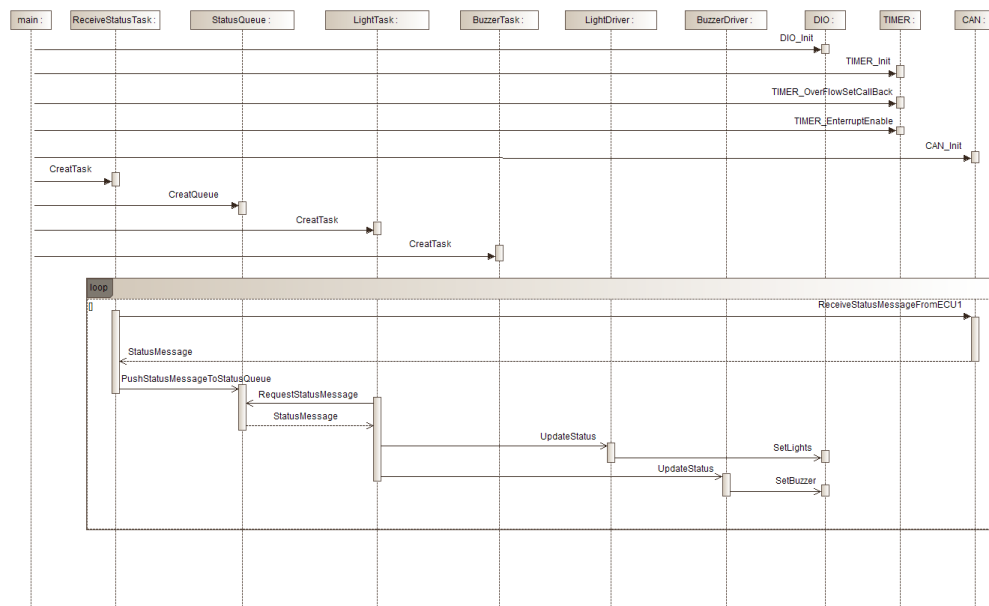
light task



buzzer task



- Sequence diagram for ECU2



- CPU load for ECU2

Tasks of the system

Task Name	Periodicity (ms)	Execution Time (ms)
ReceiveStatusTask	5	0.4
LightTask	5	1
BuzzerTask	5	1

CPU load

$$\text{CPU load} = \sum_{i=1}^n \frac{C_i}{P_i}$$

$$\text{CPU load} = \frac{0.4}{5} + \frac{1}{5} + \frac{1}{5}$$

$$\text{CPU load} = 0.48$$