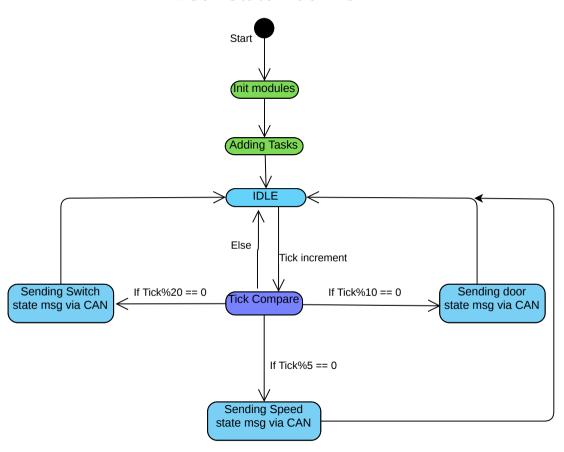
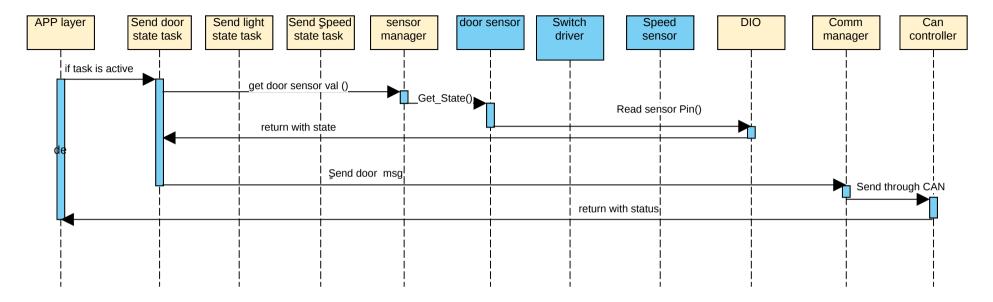
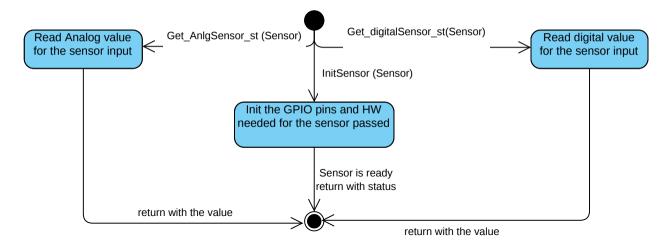
## ECU1 State Machine



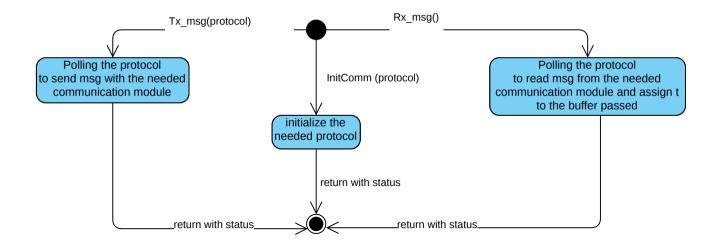


Same sequance for other tasks....

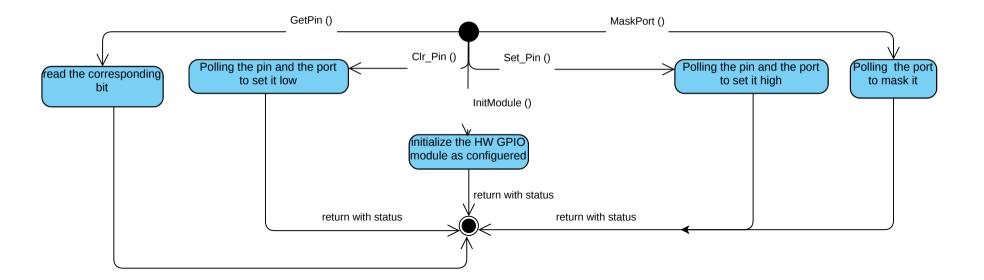
## ECU1 Sensor Manager



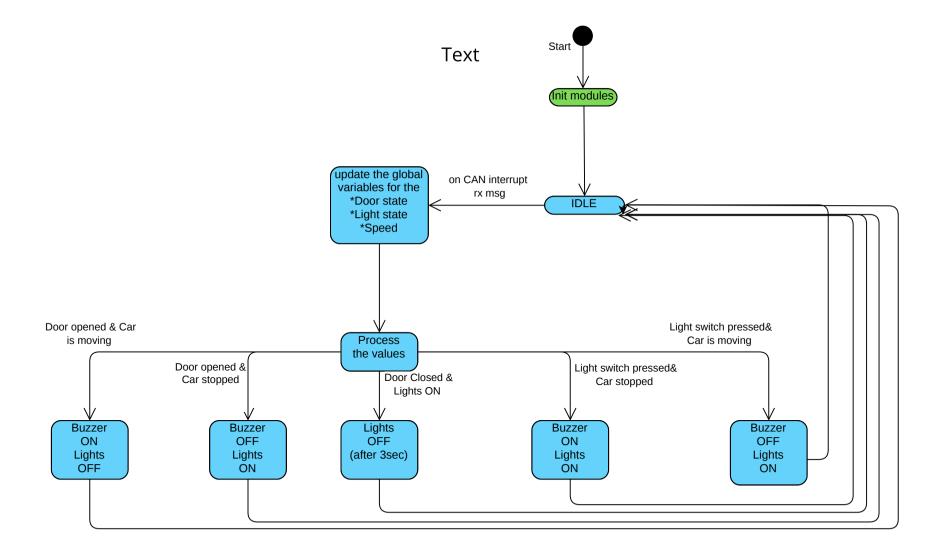
# ECU1 comm manager

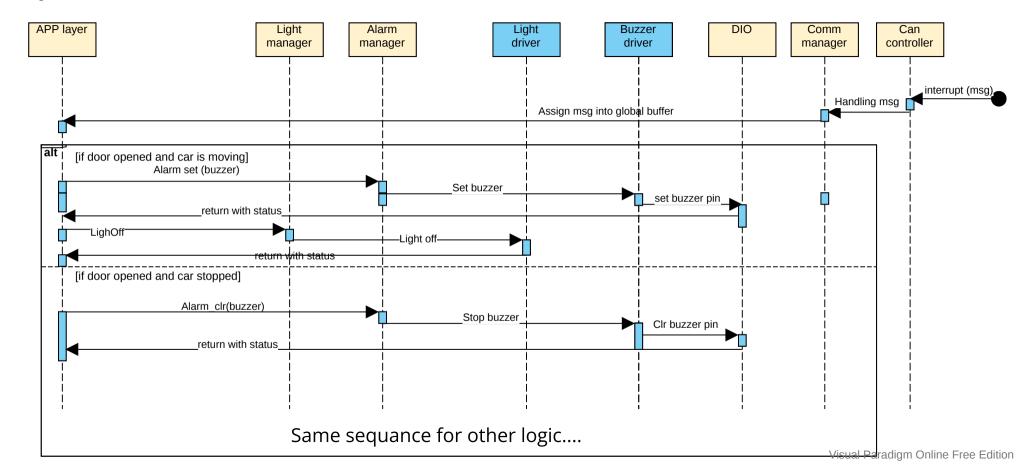


#### ECU1 DIO

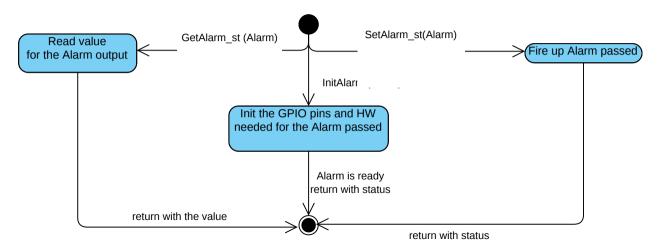


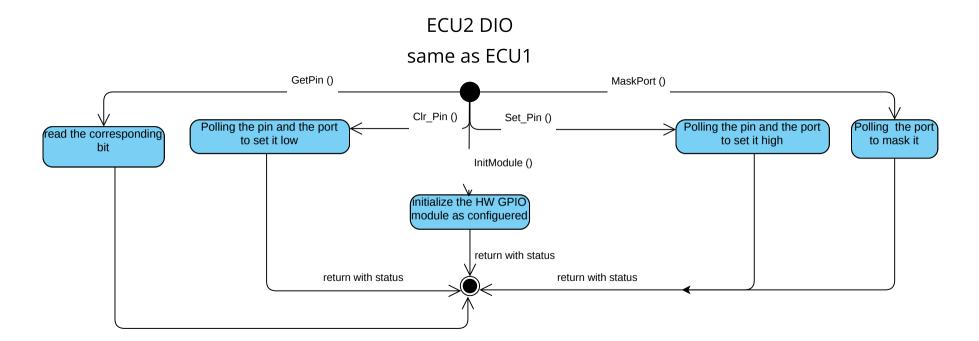
#### **ECU2 State Machine**



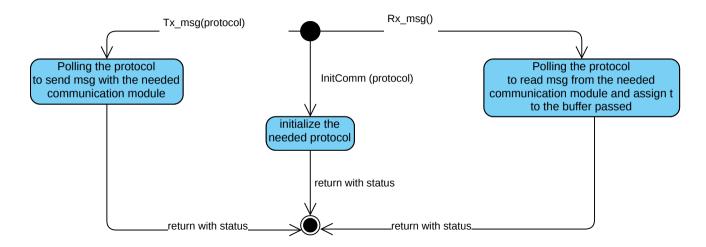


## ECU2 Alarm Manager





# ECU2 comm manager same as ECU1



# For ECU1:

CPU load

Assume sending massage task executes in 2 ms Hyper period 20ms

Load = 
$$(4*2 + 2*2+1*2)/20 = 70\%$$

# For ECU2:

Almost same receiving time + logic over head Assume logic over head is 3ms per each 20ms Load = (14+3)/20=85%