main

update Door State
- read door sensor
- update door state

update light switch State
- read Light switch
- update light switch state

update speed State
- read speed sensor
- update speed state

timer interrupt

timer 5ms interrupt
- send speed msg over CAN
- timer counter even
- send door msg over CAN
- timer counter devidable by 4
- send speed msg over CAN

ECU_1 state diagram