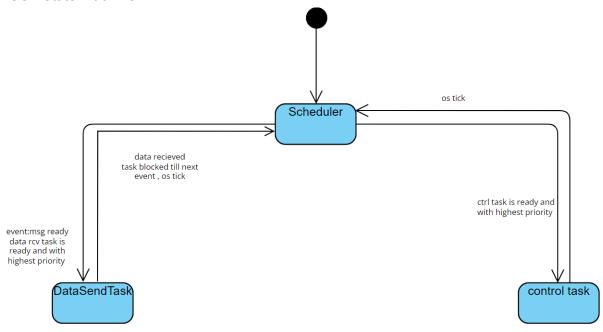
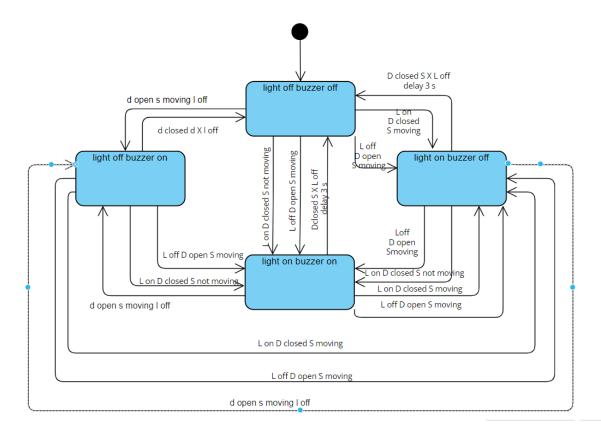
Components States State Machine Diagram

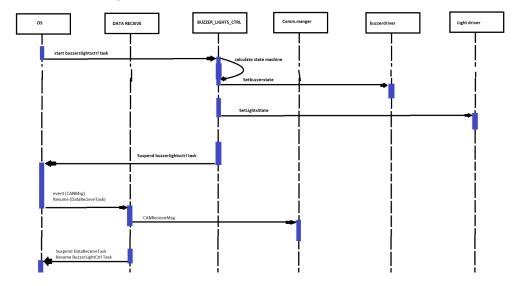
ECU2 State Machine :-



BUZZER AND LIGHTS State Machine :-



the ECU2 Seq. Diagram



To calculate CPU Load We assume all task take 1 ms WCET , only the DATA RECEIVE task take 2ms WCET Hyper period is 5ms $\text{CPULOAD} = (\ (5/5) + ((5/5)^*2)\)/5 = \ 75\%$