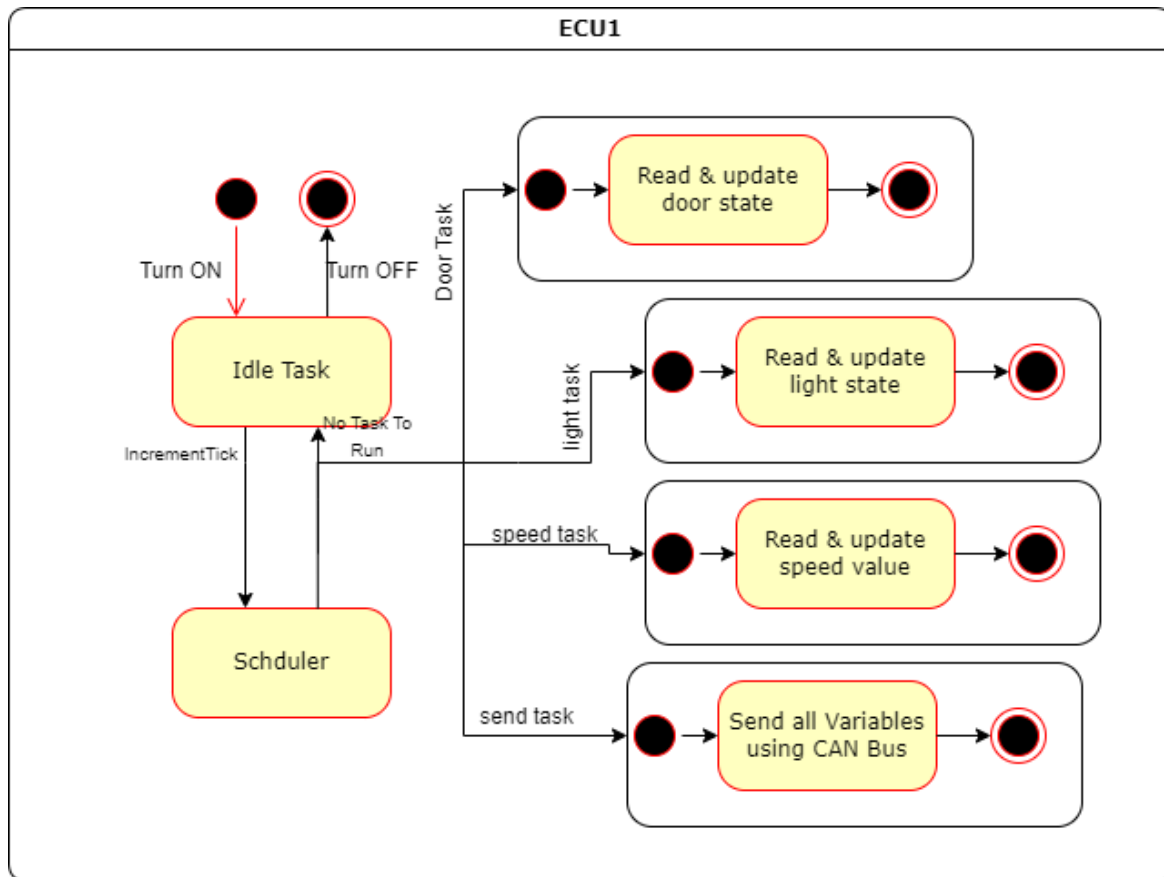
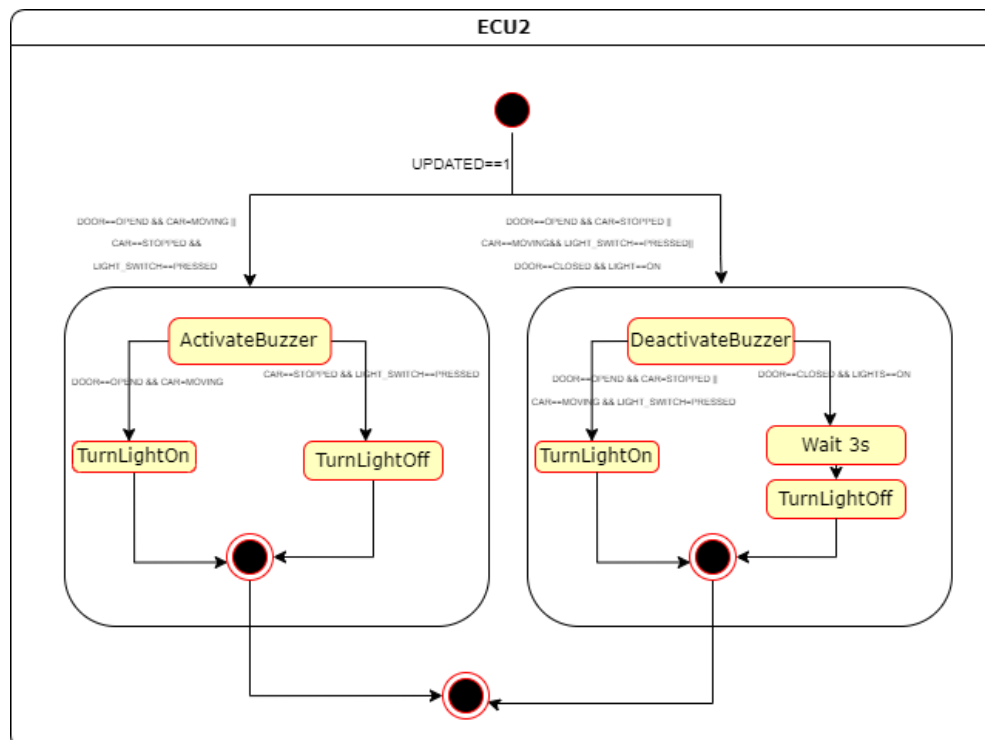
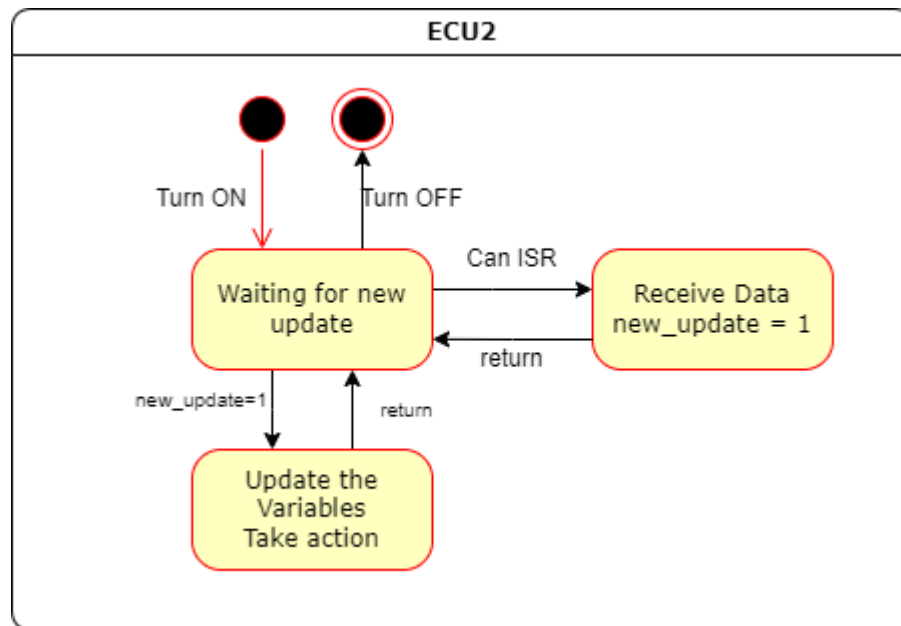


Dynamic Design:

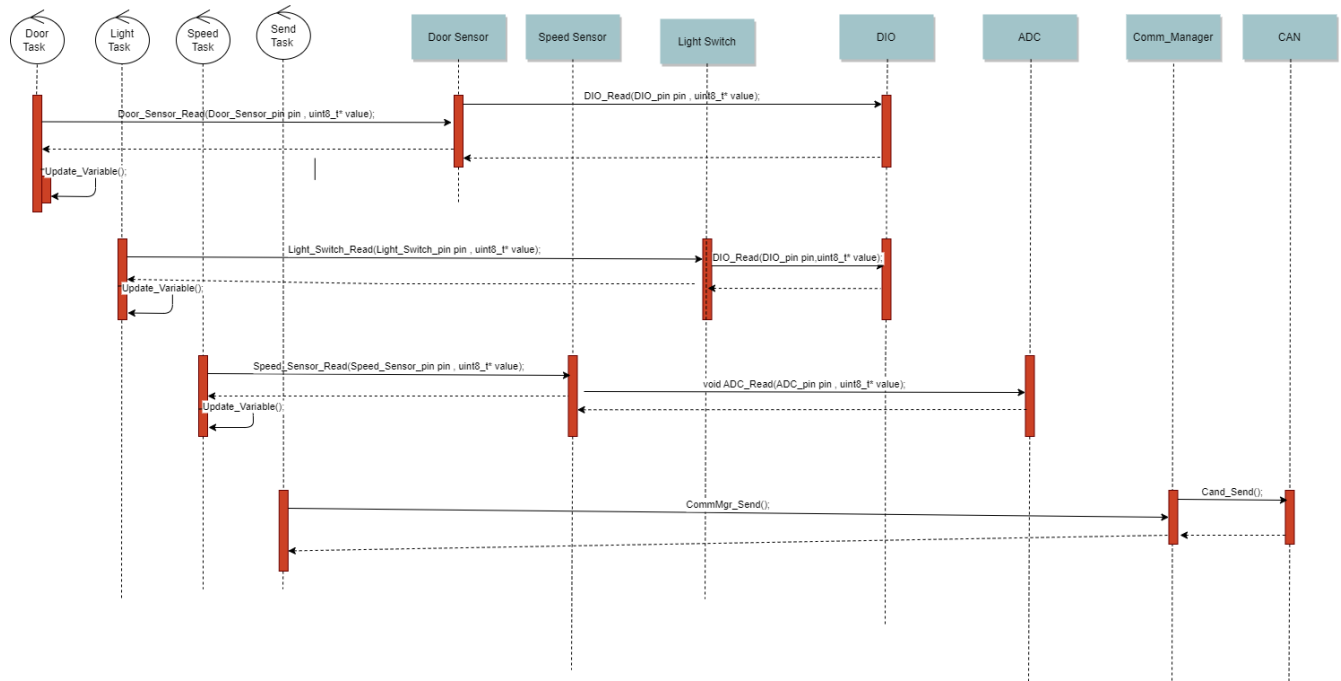
- State Diagram for ECU1



- State Diagram for ECU2

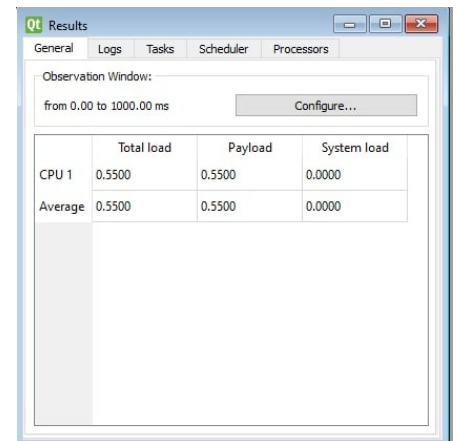


- Sequence Diagram for ECU1:

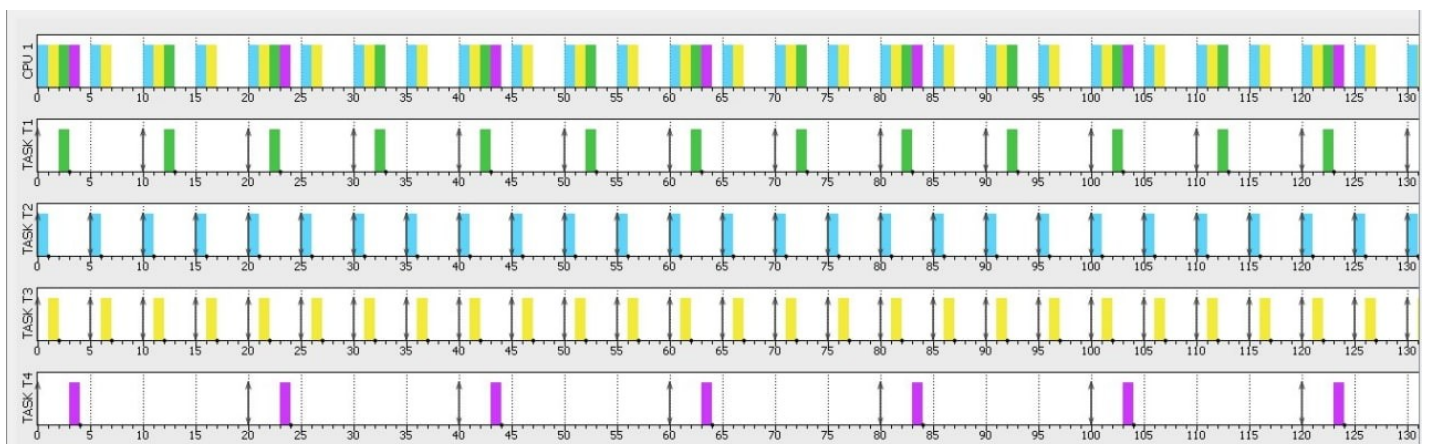


- CPU Load for ECU1:

- * Assume worst case execution time (WCT) for all tasks is 1 ms
- * Door task runs every 10ms
- * Light switch task runs every 20ms
- * Speed task runs every 5ms
- * Send task runs every 5ms



- Gantt Chart



- Sequence Diagram for ECU2:

