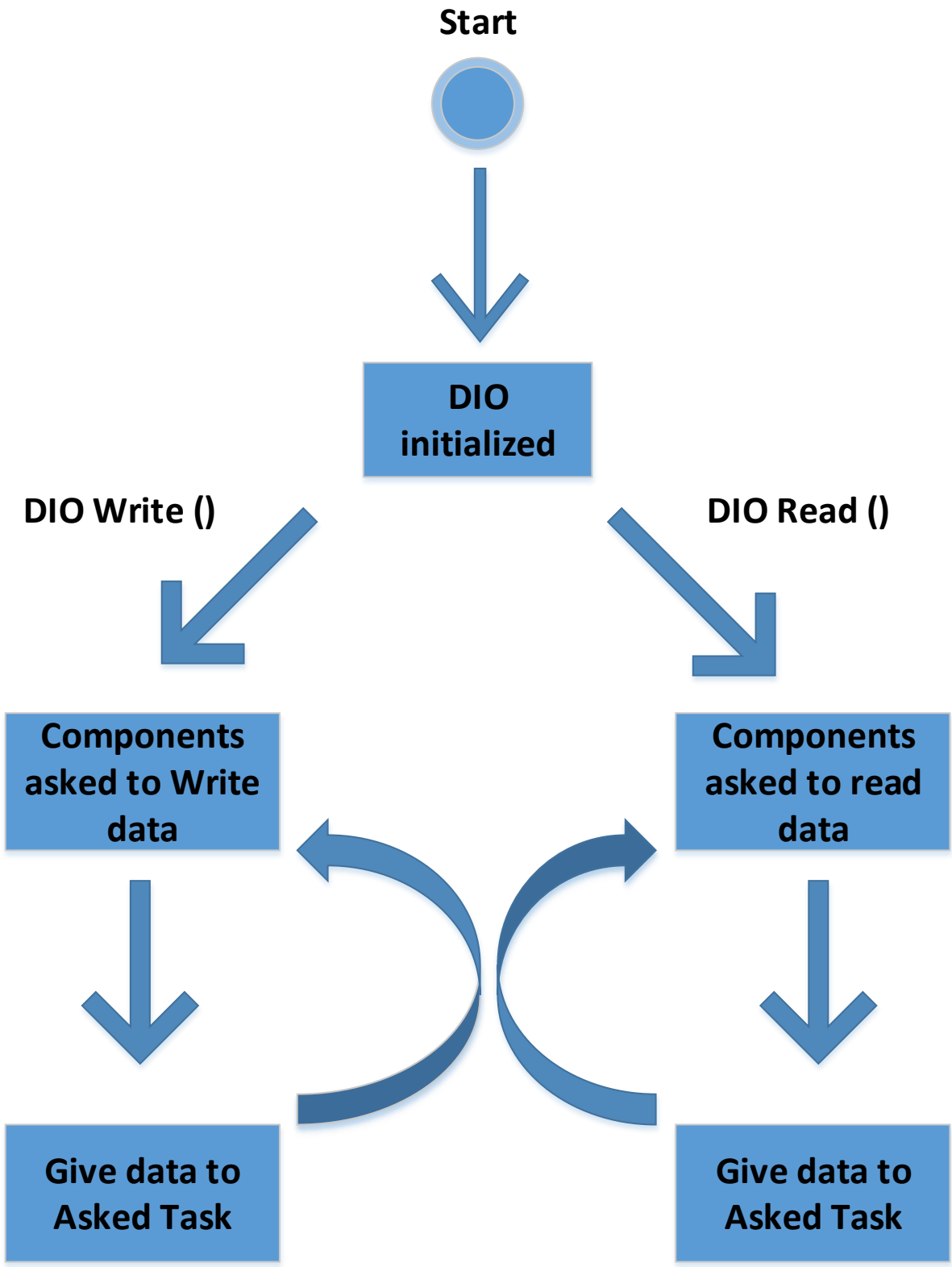
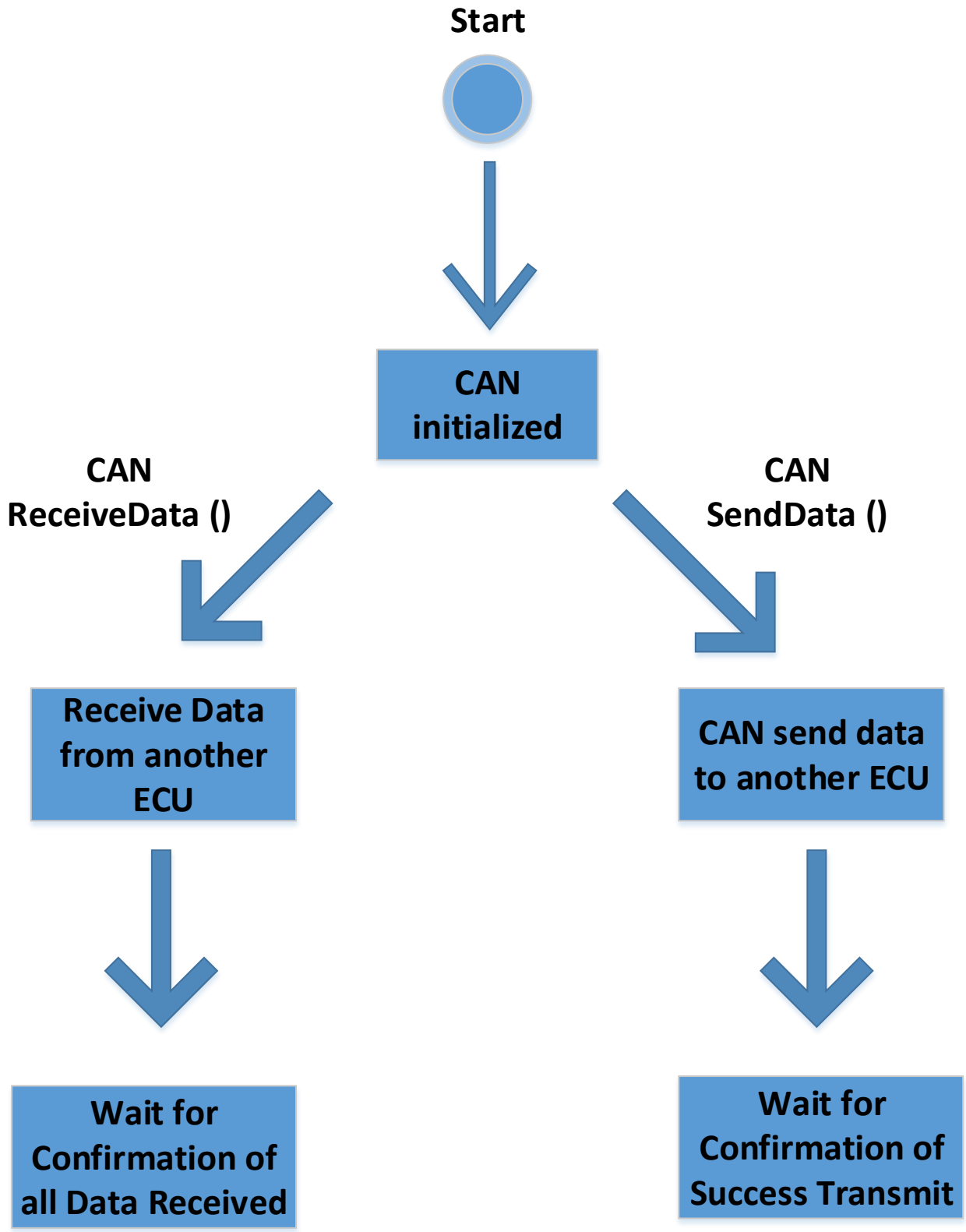
ECU2 Components
State Diagram

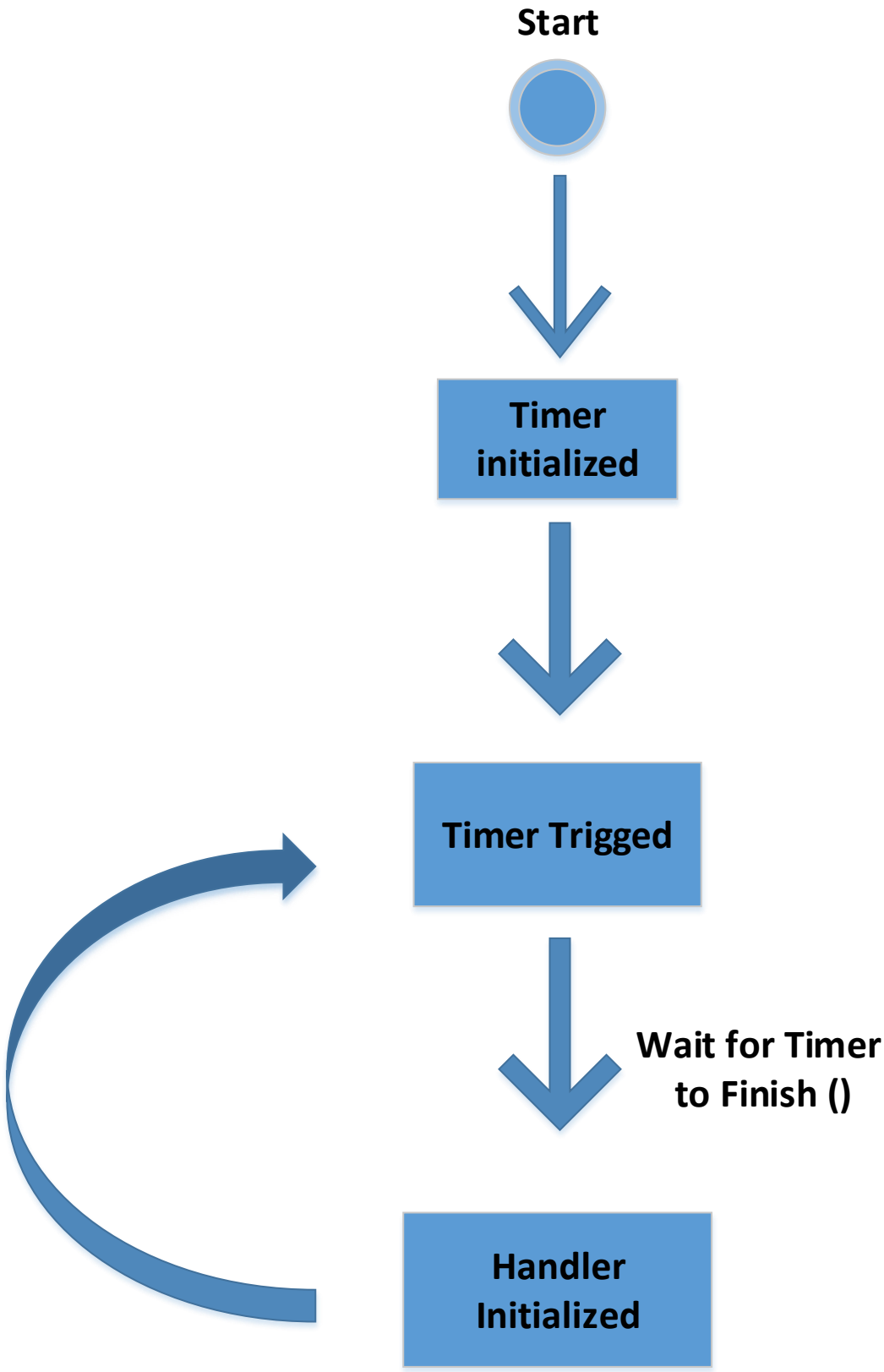
1 – DIO:



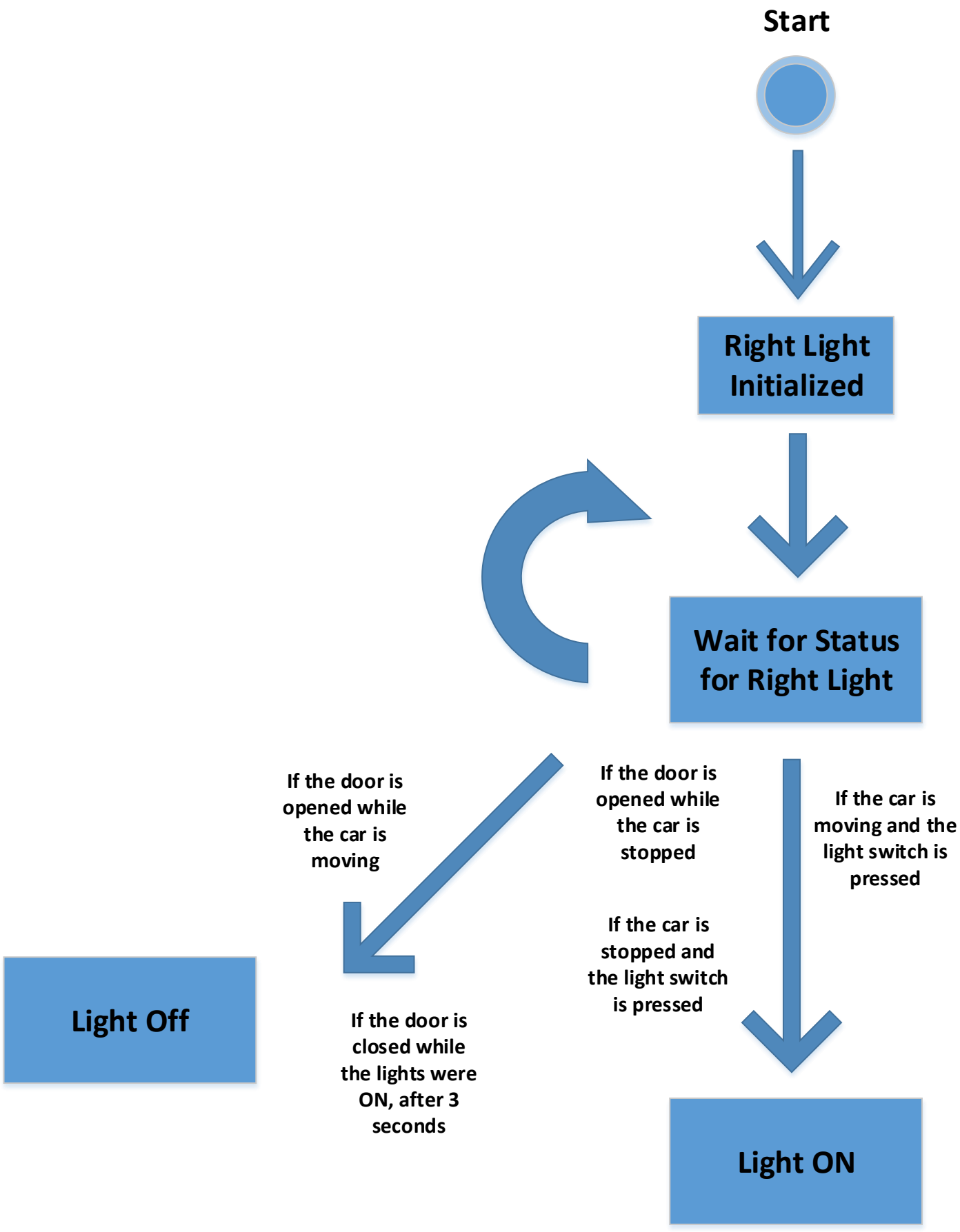
2– CAN:


Start
CAN initialized
CAN ReceiveData ()
CAN SendData ()
Receive Data from another ECU
CAN send data to another ECU
Wait for Confirmation of all Data Received
Wait for Confirmation of Success Transmit

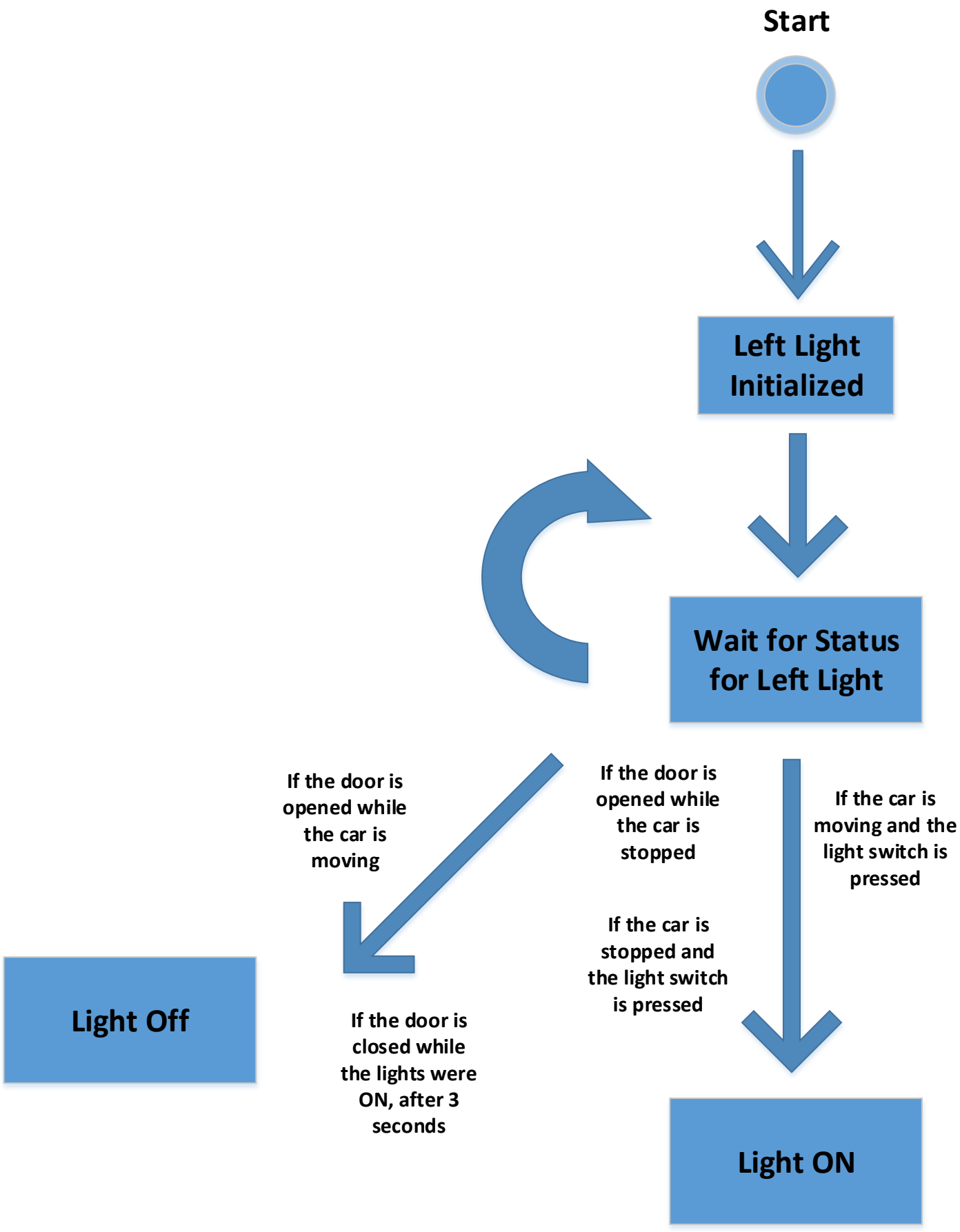
3 – Timer:


Start
Timer initialized
Timer Trigged
Wait for Timer to Finish ()
Handler Initialized

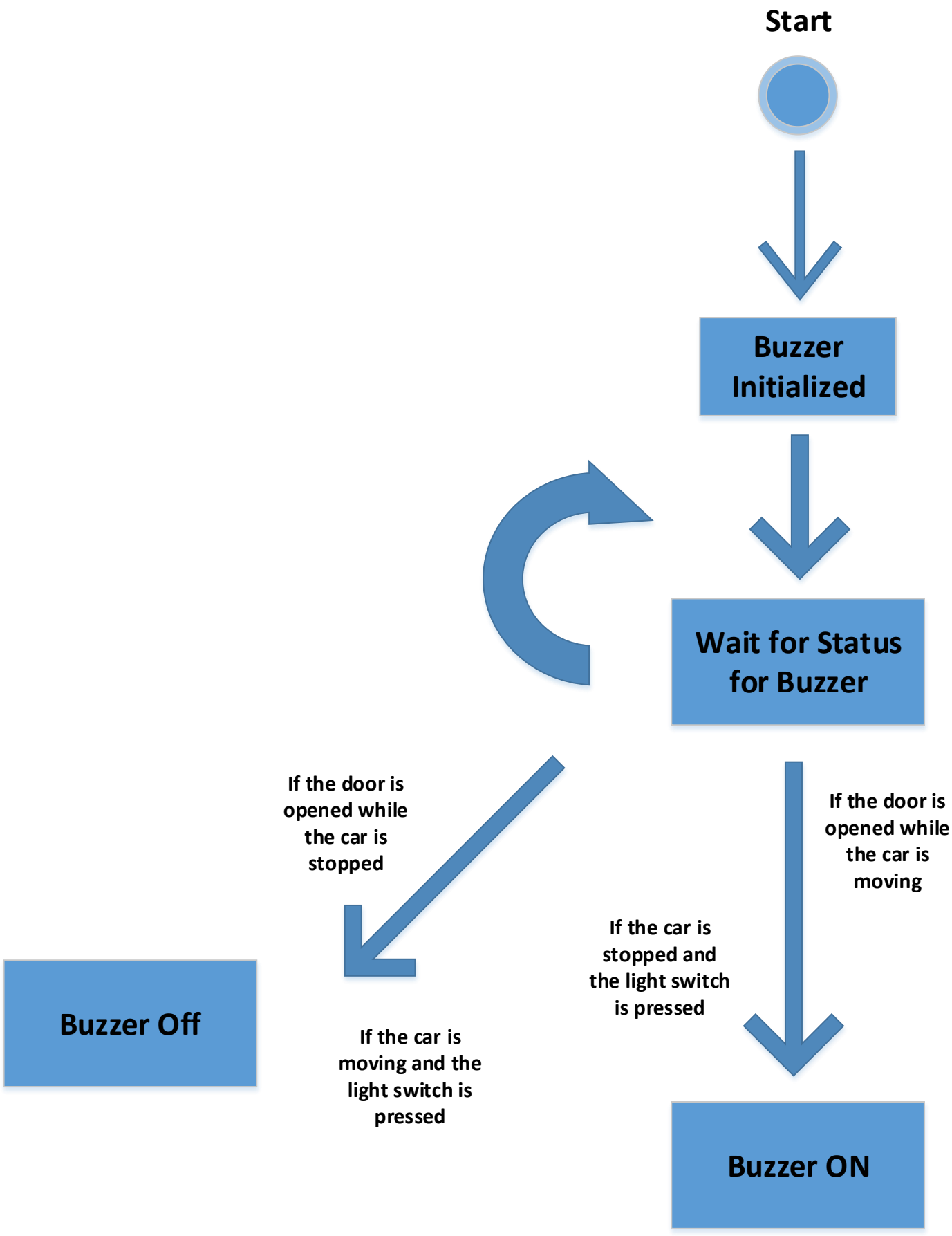
4 – Right Light:



5 – Left Light:


Start
Left Light Initialized
Wait for Status for Left Light
If the door is opened while the car is moving
If the door is opened while the car is stopped
If the car is moving and the light switch is pressed
If the car is stopped and the light switch is pressed
If the door is closed while the lights were ON, after 3 seconds
Light Off
Light ON

6 – Buzzer:


Start
Buzzer Initialized
Wait for Status for Buzzer
If the door is opened while the car is stopped
If the door is opened while the car is moving
If the car is stopped and the light switch is pressed
If the car is moving and the light switch is pressed
Buzzer Off
Buzzer ON