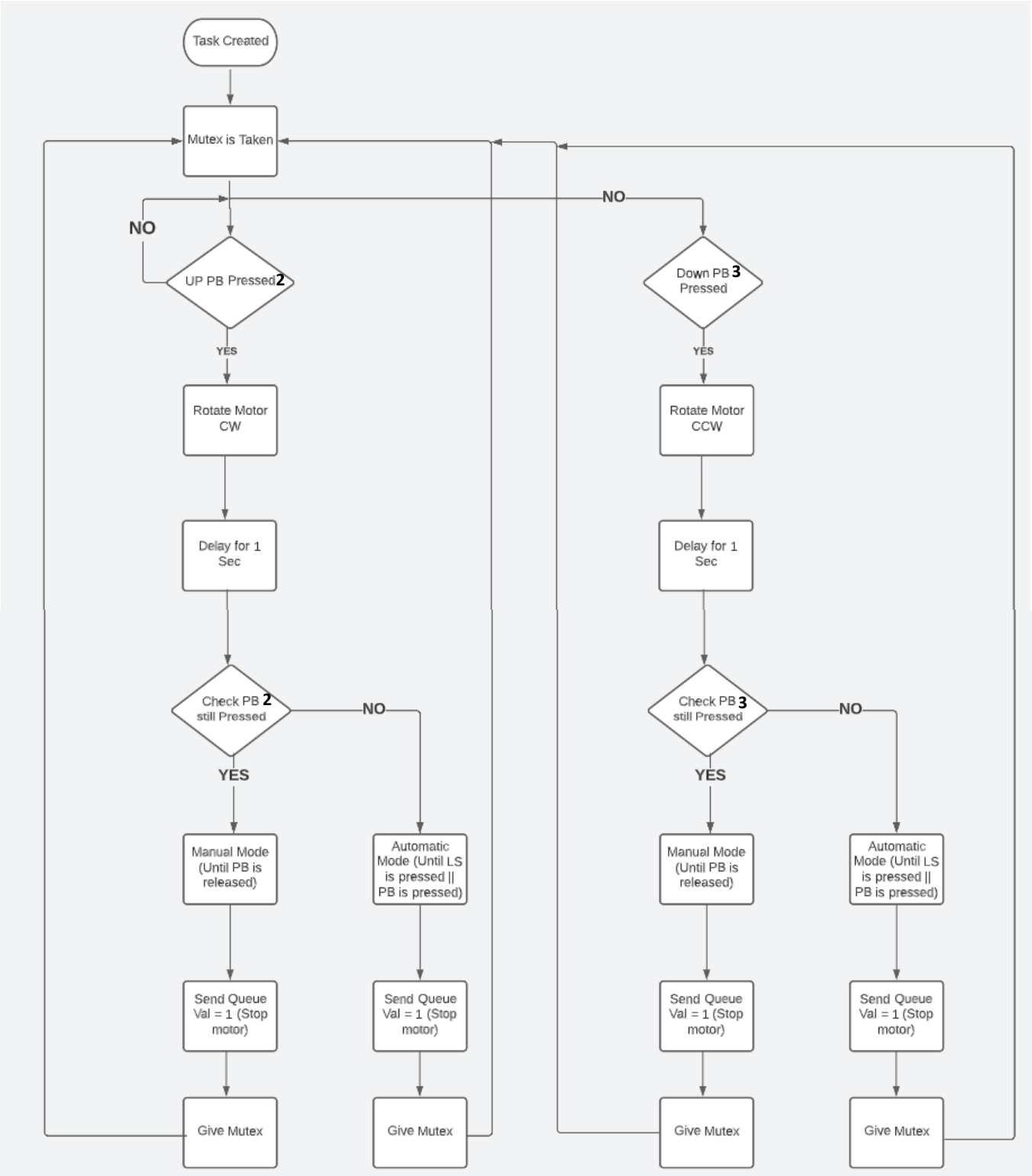
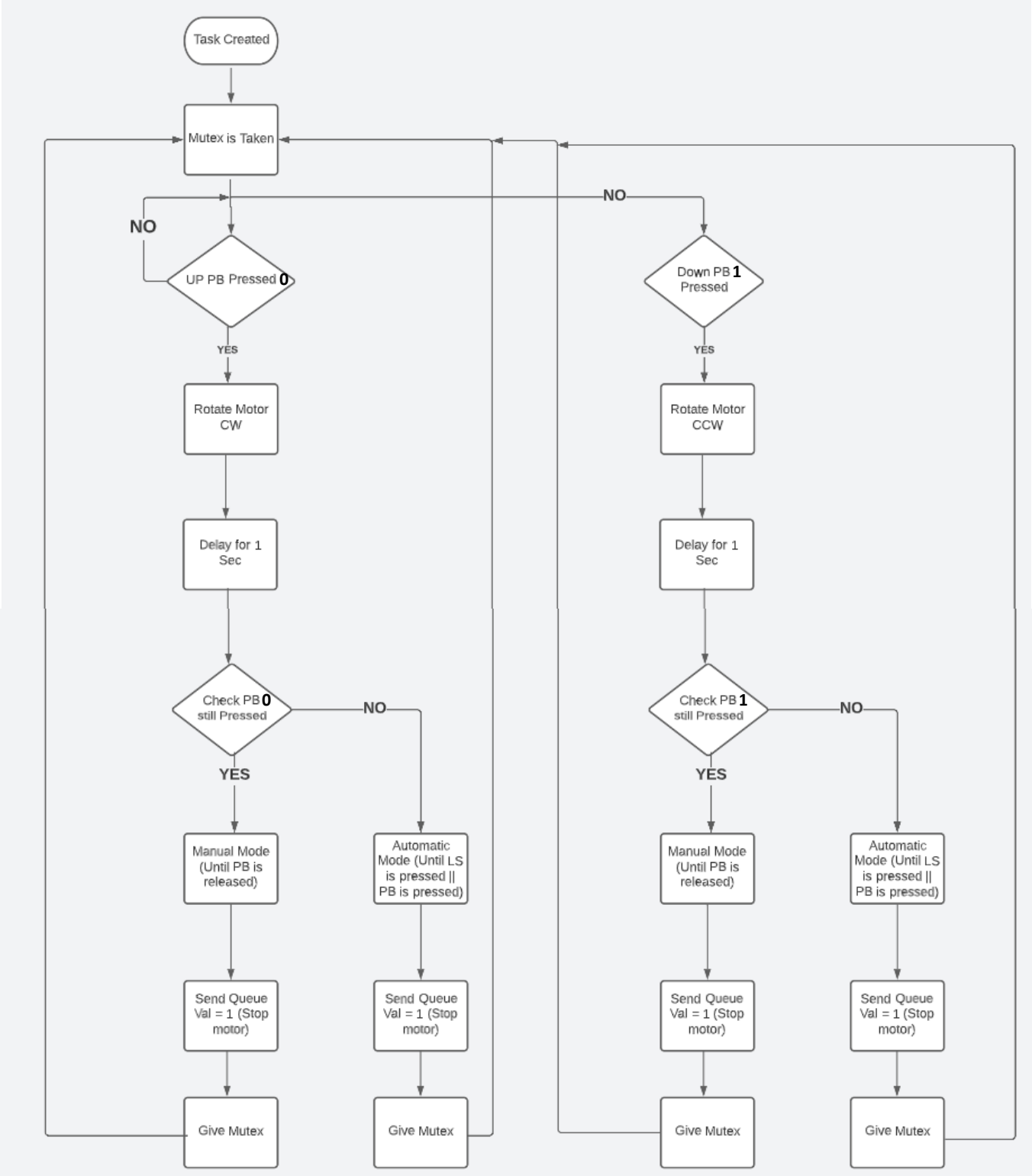
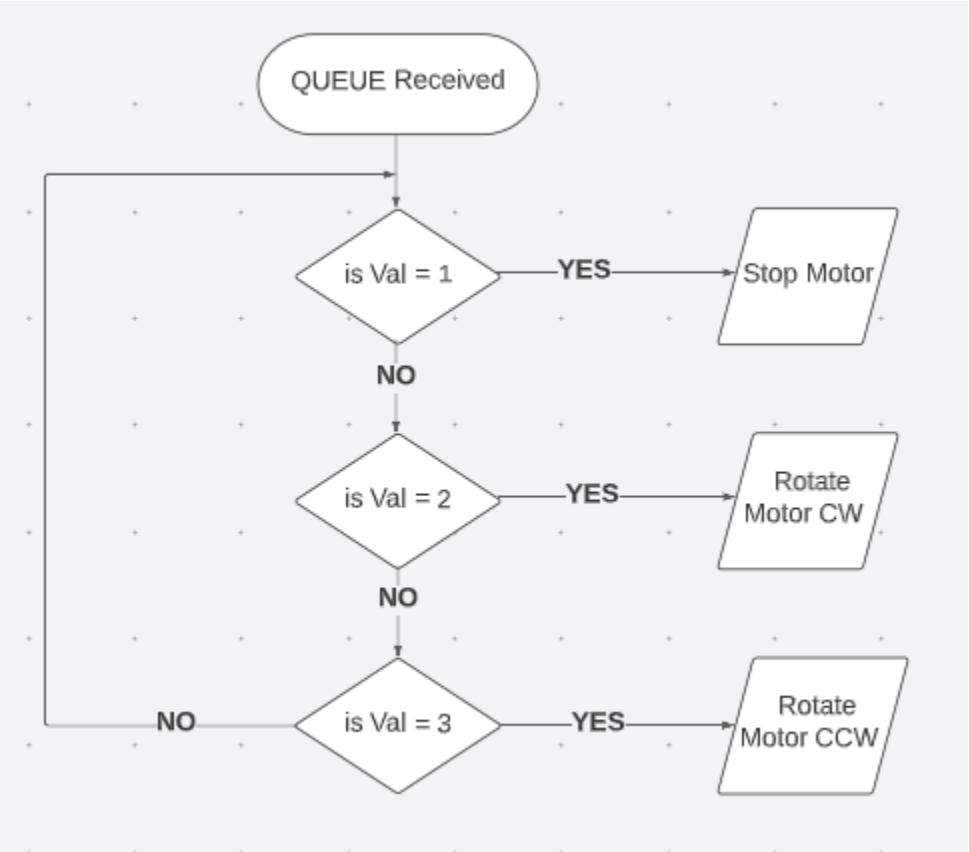
Passenger Task



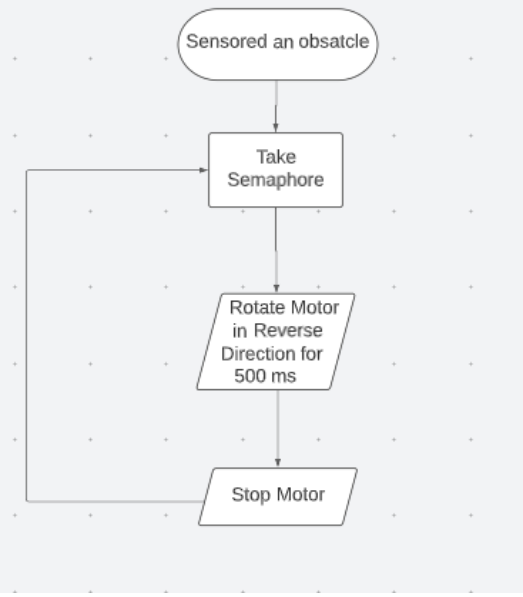
Driver Task


Task Created
Mutex is Taken
NO
NO
UP PB Pressed 0
Down PB 1 Pressed
YES
YES
Rotate Motor CW
Rotate Motor CCW
Delay for 1 Sec
Delay for 1 Sec
Check PB 0 still Pressed
NO
Check PB 1 still Pressed
NO
YES
YES
Manual Mode (Until PB is released)
Automatic Mode (Until LS is pressed || PB is pressed)
Manual Mode (Until PB is released)
Automatic Mode (Until LS is pressed || PB is pressed)
Send Queue Val = 1 (Stop motor)
Send Queue Val = 1 (Stop motor)
Send Queue Val = 1 (Stop motor)
Send Queue Val = 1 (Stop motor)
Give Mutex
Give Mutex
Give Mutex
Give Mutex

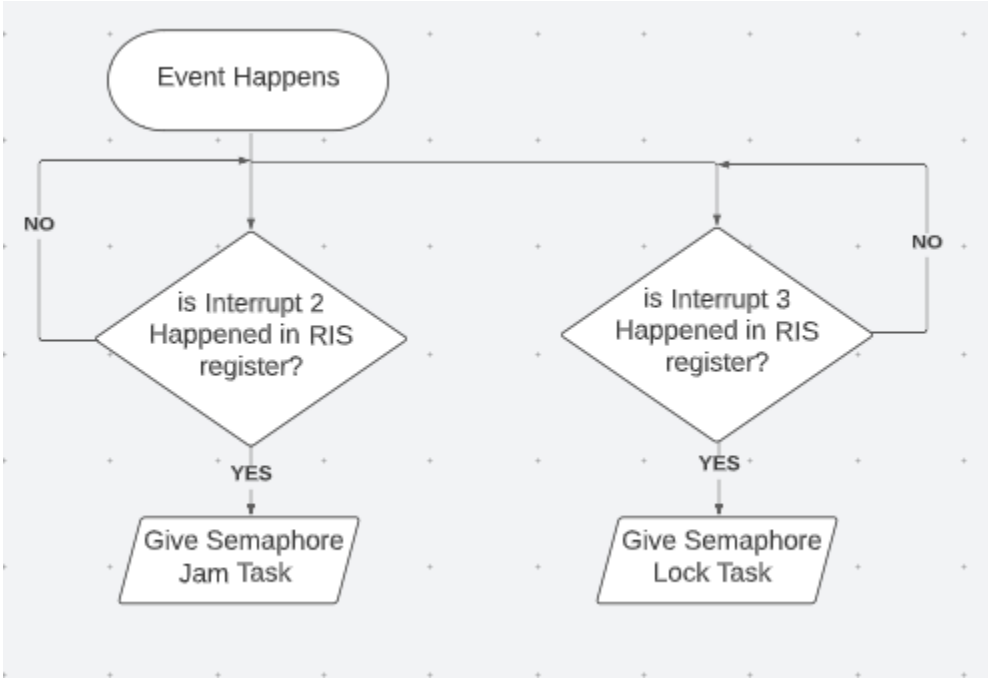
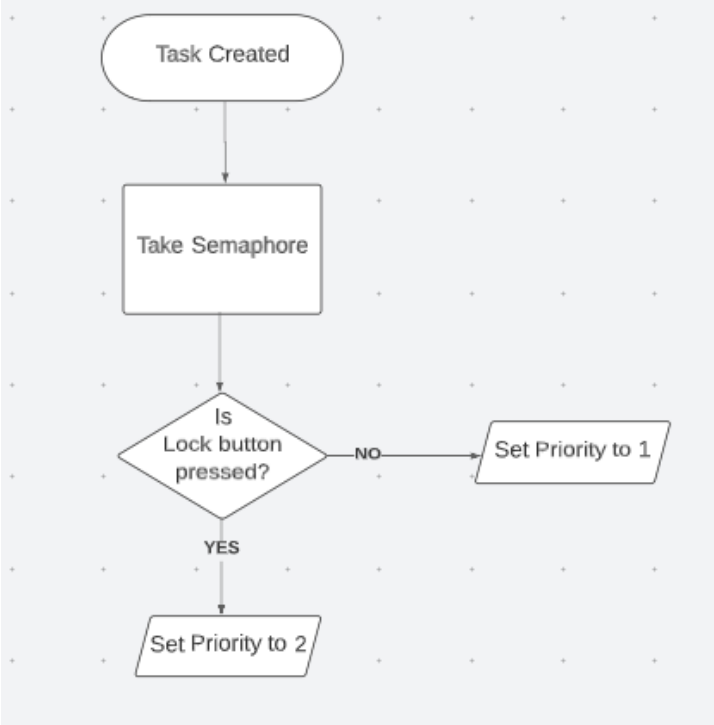
Queue Task



Jam Task



ISR



Lock Task