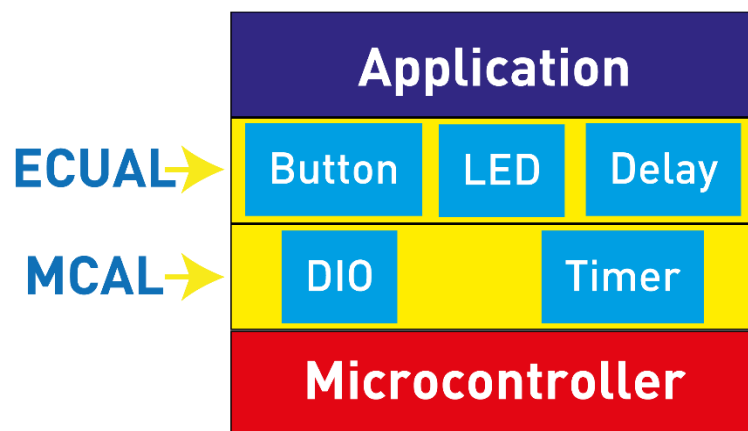


Project 2: On-demand Traffic light control

System Design:

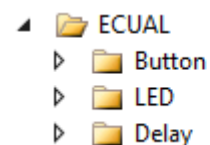
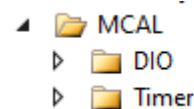
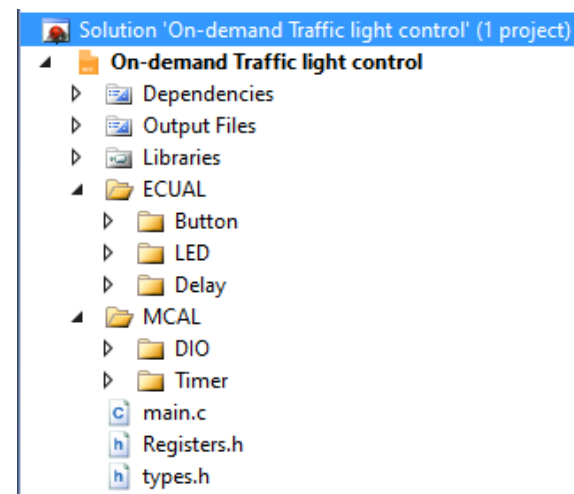
The system consists of two traffic light modes. The normal mode in which cars move on green and stops on red, each light stays for five seconds starting from green through yellow to red and returning to green through red. The second mode is for pedestrian, in which when a pedestrian presses a button, the normal mode stops and the system switches to pedestrian mode which allows passengers to walk on green and stop on red.

System Layers:

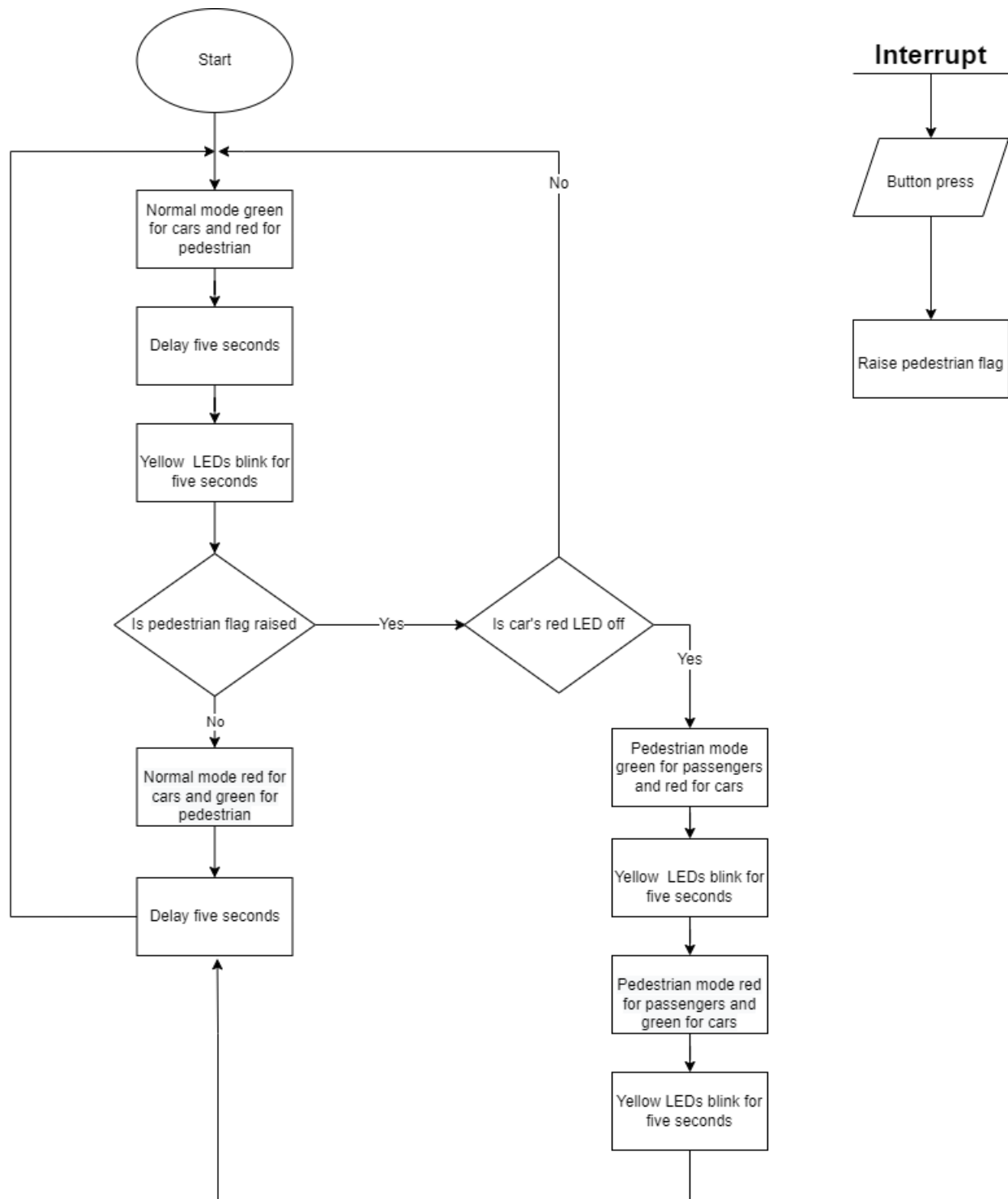


MCAL:

ECUAL:



Flowchart:



System constraints:

The system only works for five seconds in each stage.