System Design

By using UML

Blocks :

block
Pressure_Detector

block
High_pressure_detection

- pVal = 0 : int;
- pTimer : Timer;

- init_()

~ out get_PressuureVal(int pVal)

block
MainAlgo

- pVal = 0 : int;
- threshold = 20 : int;

~ in get_PressuureVal(int pVal)
~ out high_pressure_det()

block
MonitorAlarm

- alarmTimer : Timer;
- perTimer = 60 : int;

~ in high_pressure_det()
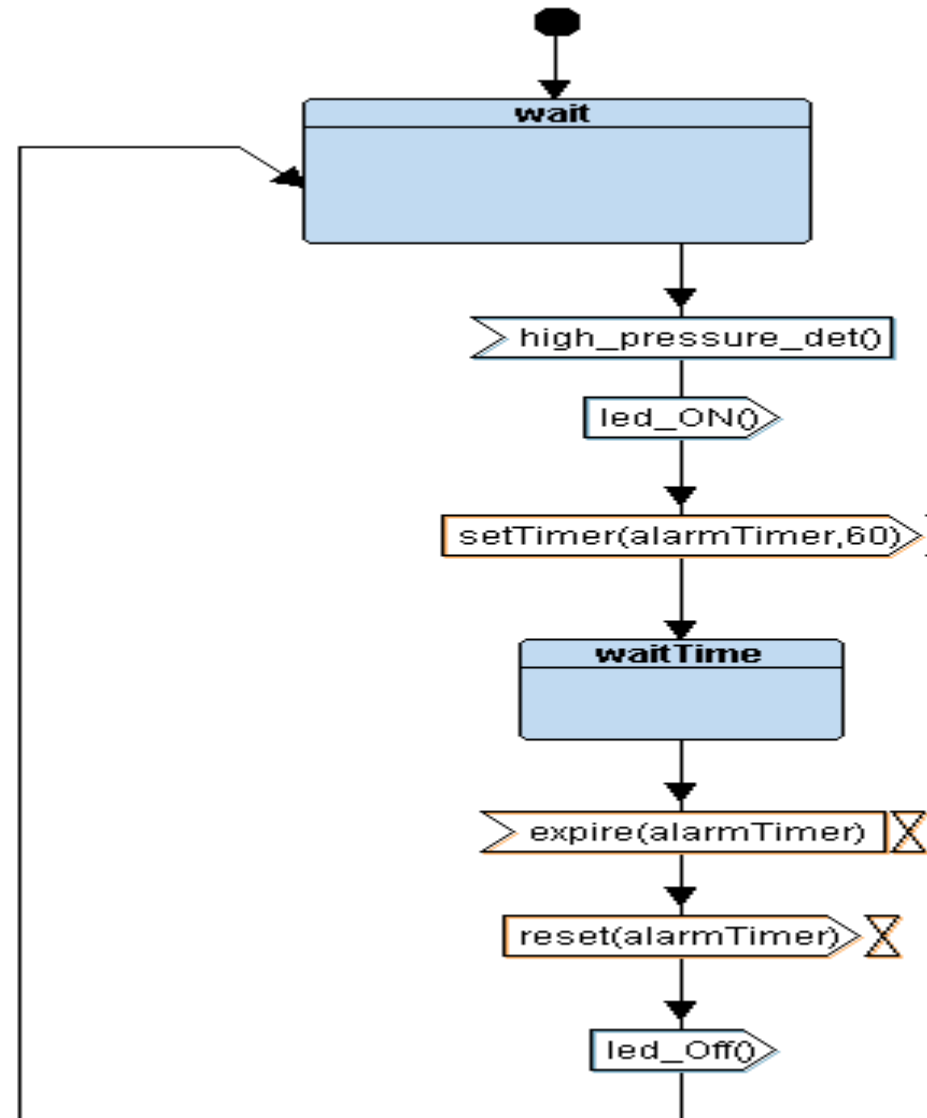~ out led_ON()
~ out led_Off()

block
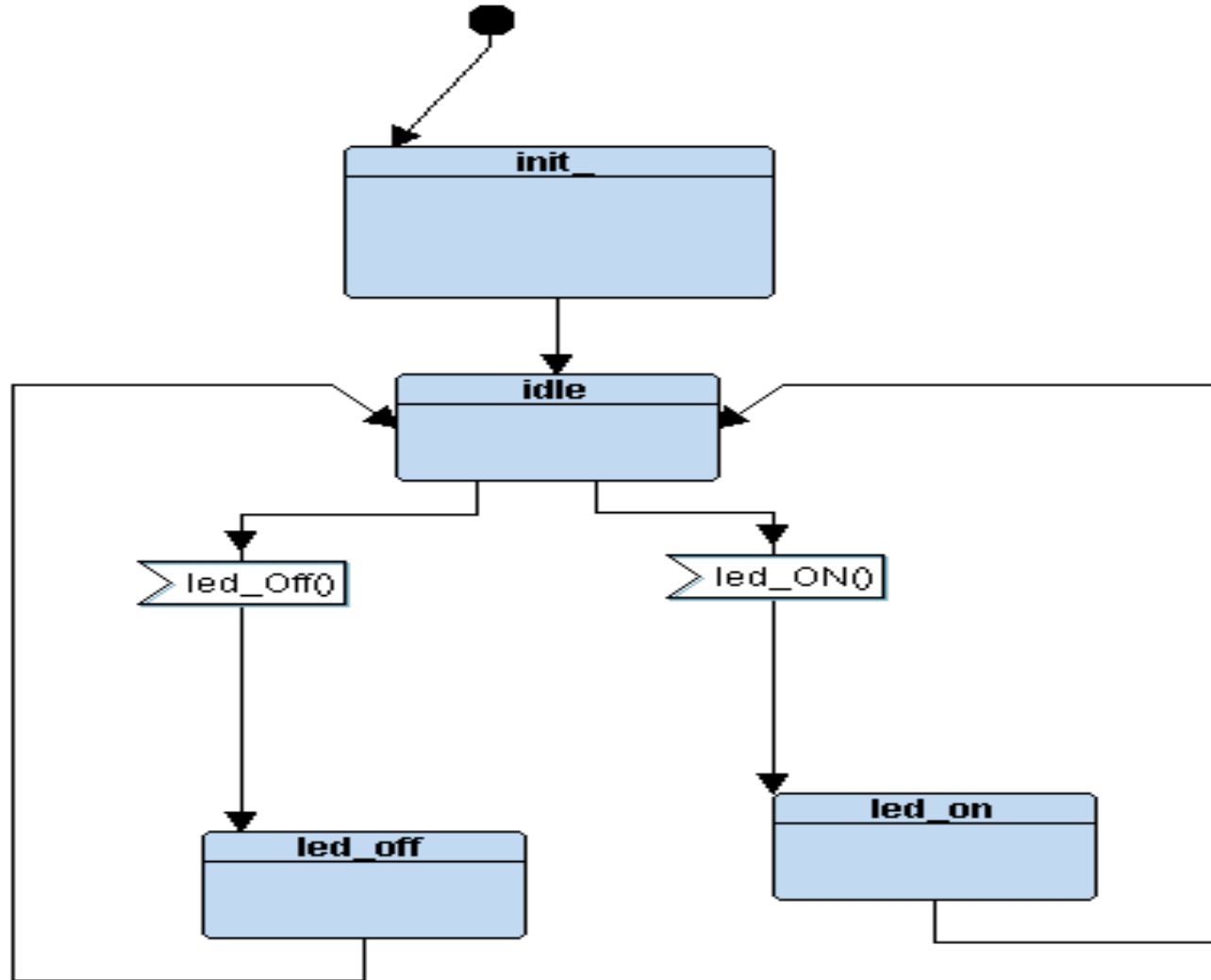LED_Sensor

- init_()

~ in led_ON()
~ in led_Off()
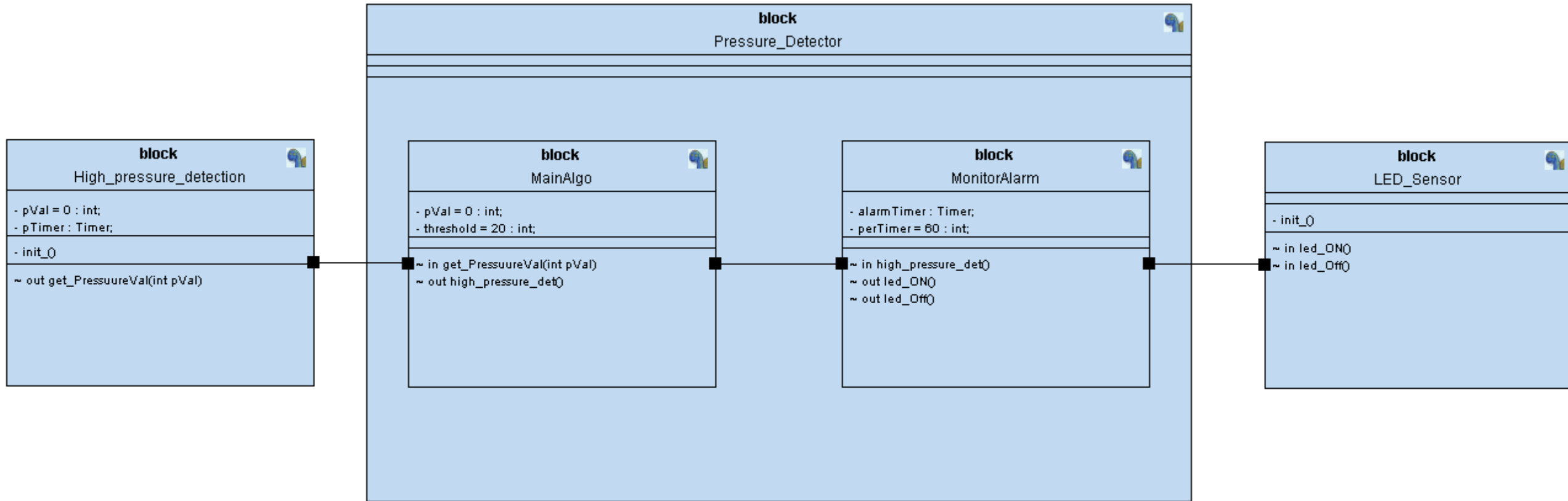
Block of "MainAlgo" :
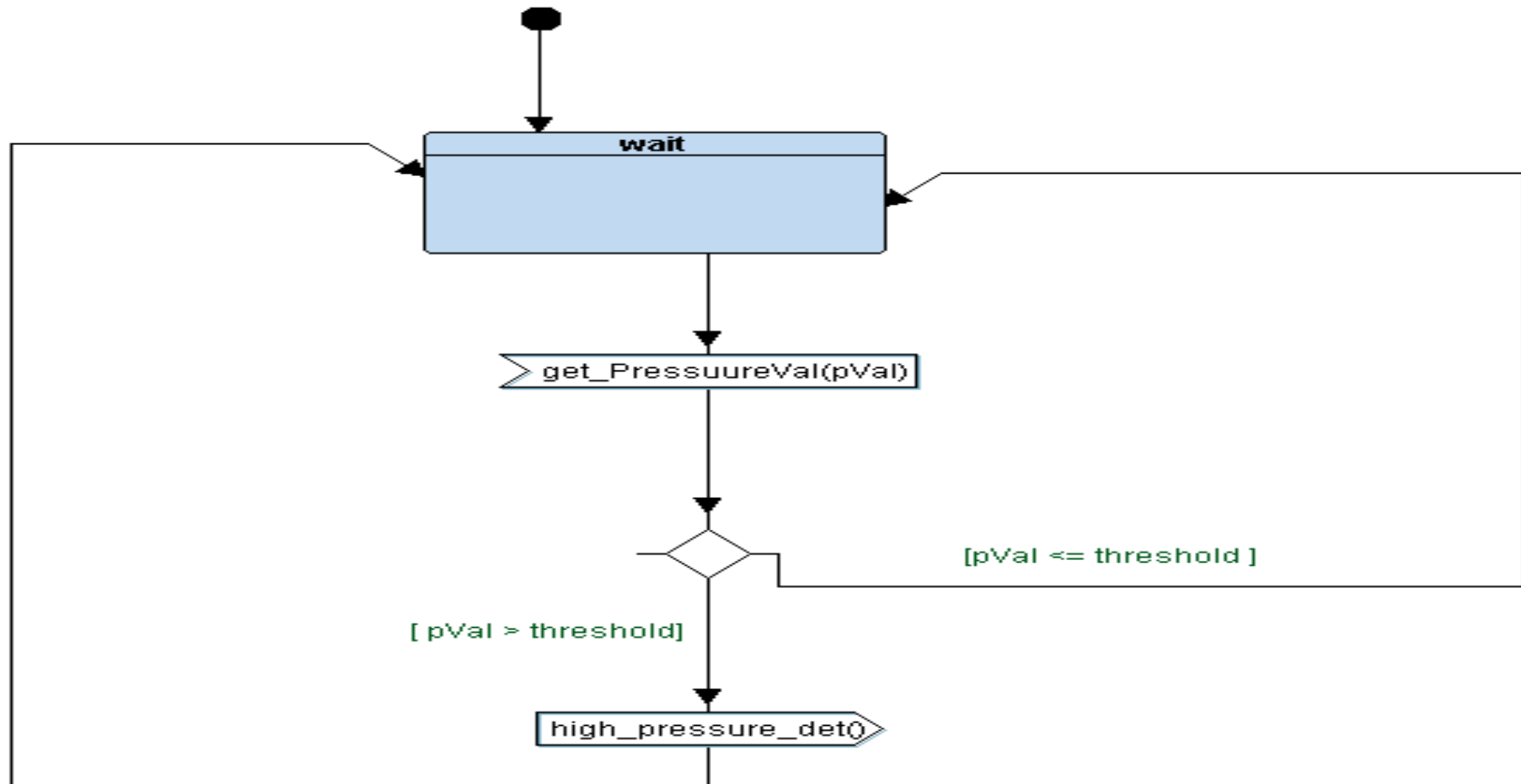
Block of "MonitorAlarm" :

Block of "Led_Sensor" :

Block of "High_pressure_detection" :