

ASSIGNMENT-02

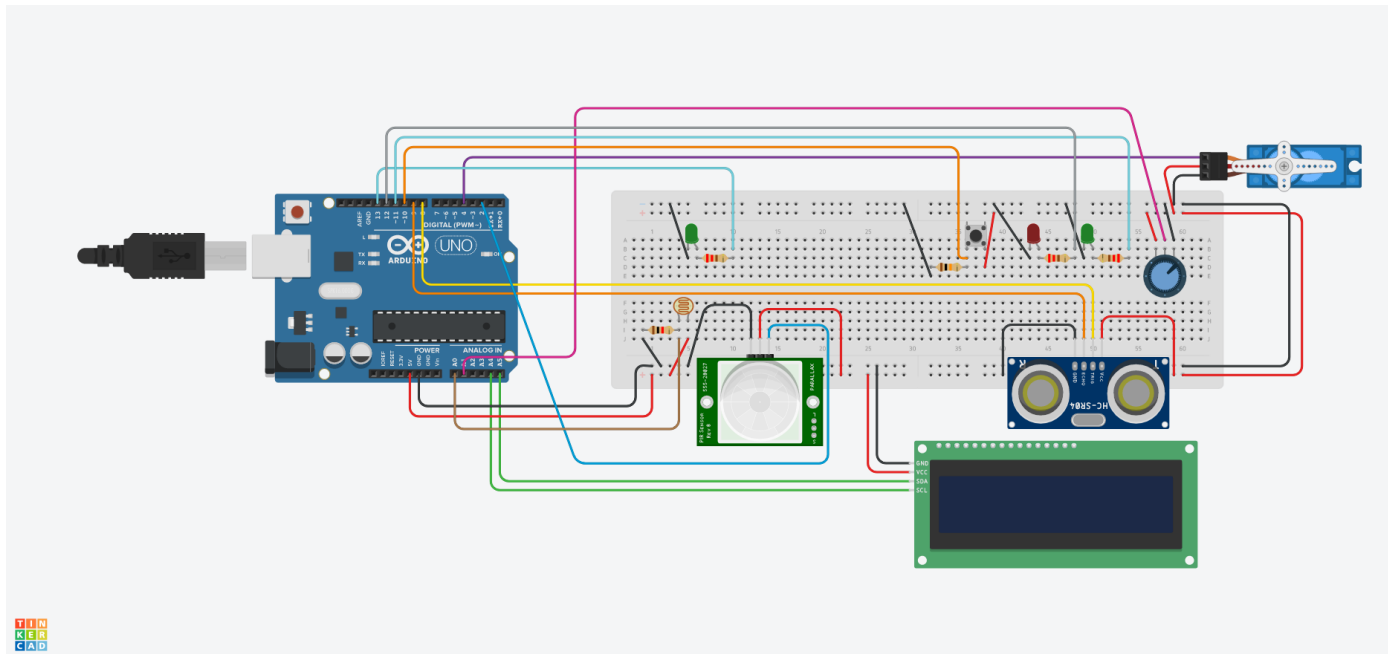
marco.pesic@studio.unibo.it

0000975330

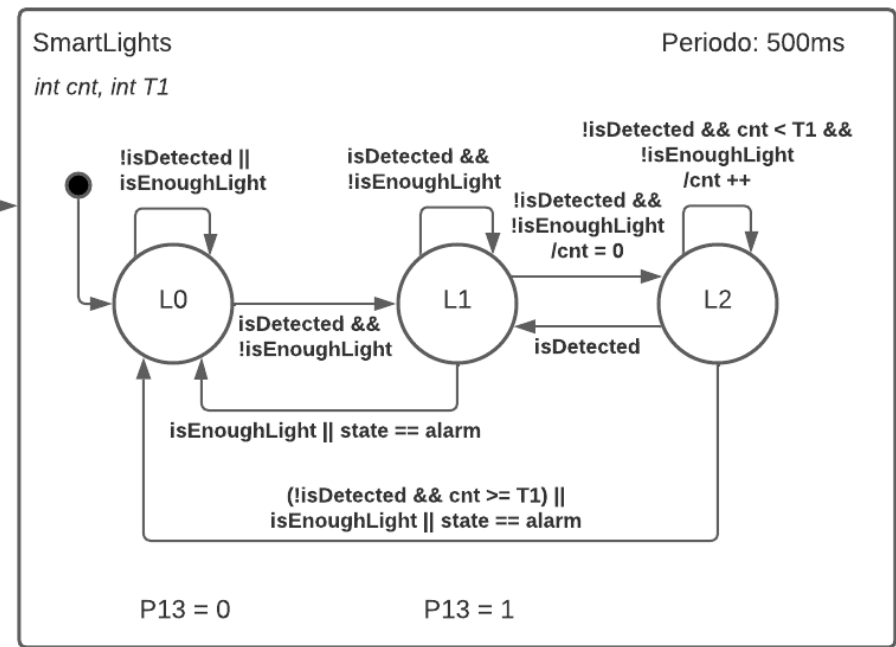
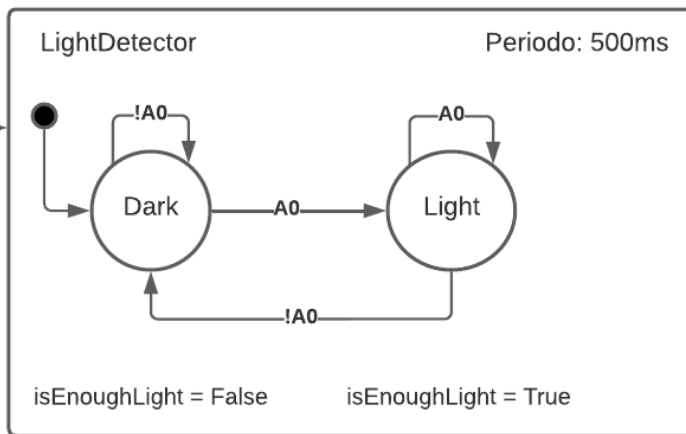
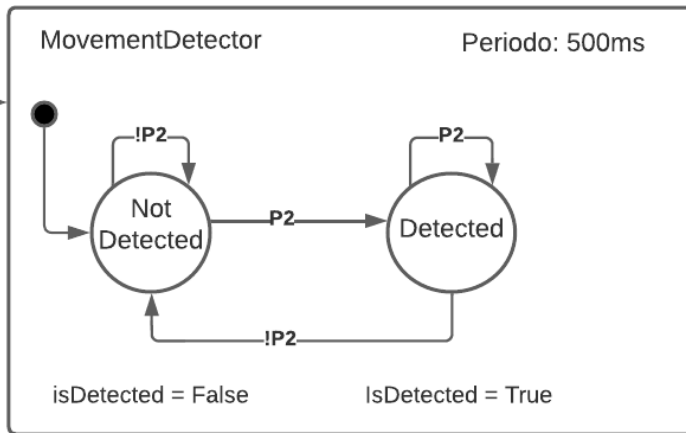
riccardo.alni@studio.unibo.it

0000971613

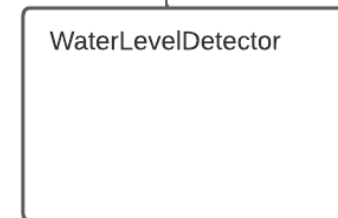
Abbiamo suddiviso in 9 task i 2 sistemi Smart Lighting System e Smart River Flow System. Lo task di Water Level Detector mette in output lo state {ALARM, PRE-ALARM, NORMAL} e il WL che viene utilizzato dagli altri task. Le task : RedLight, GreenLight, DisplayTask modificano il proprio periodo in base al periodo di sampling del Sonar(Water level Detector) .Questo per rendere l'aggiornamento del display e dei led coerente con le letture del sonar.



SmartBridge



boolean
isEnoughLight



enum state

LedA

P13

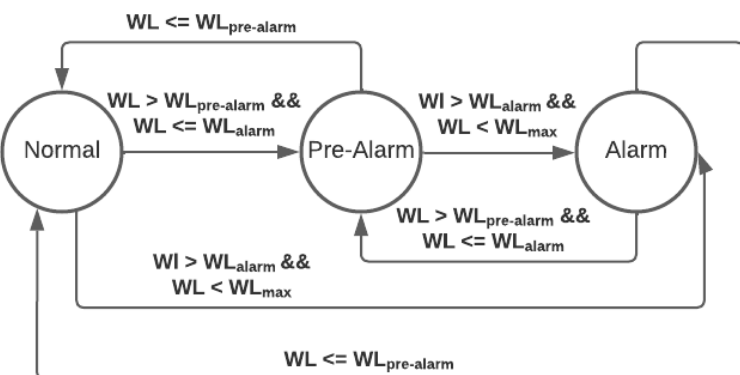
SmartBridge

WaterLevelDetector

Periodo: PE

WL

Sonar



state = normal
PE = 1000ms

state = pre-alarm
PE = 500ms

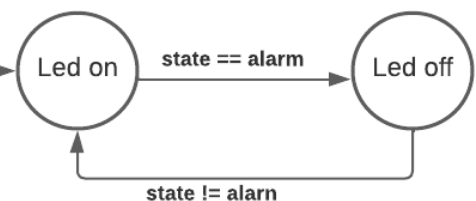
state = alarm
PE = 50ms

enum state

SmartLights

GreenLight

Periodo: PE

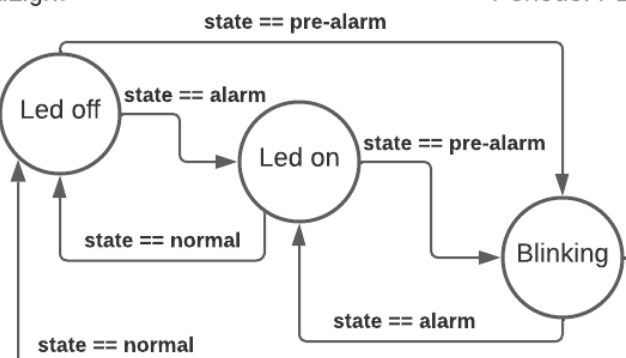


LedB

P12

RedLight

Periodo: PE



LedC

P11

SmartBridge

