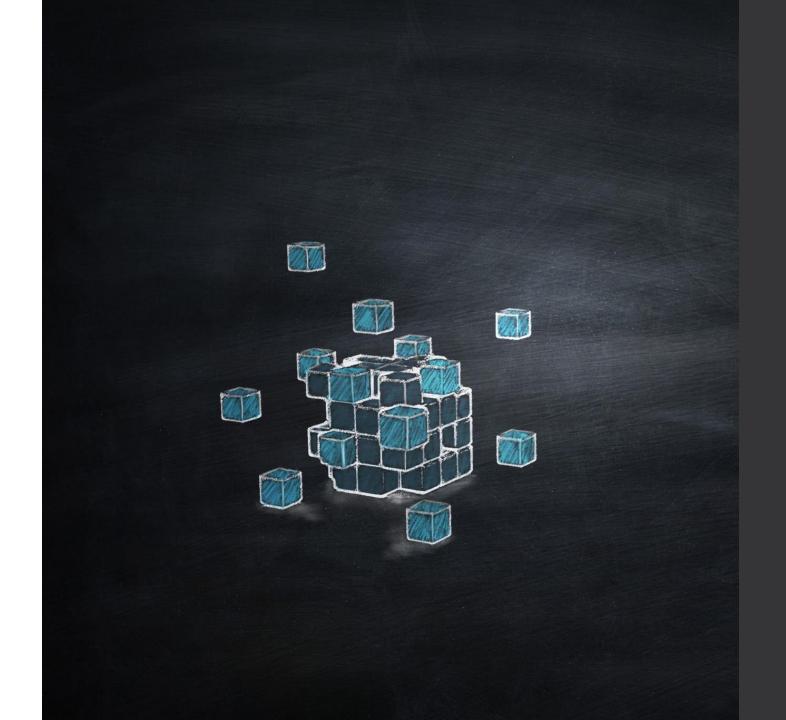
Pedestrian Interrupt Traffic Light

Embedded Systems Project John H. Leseur

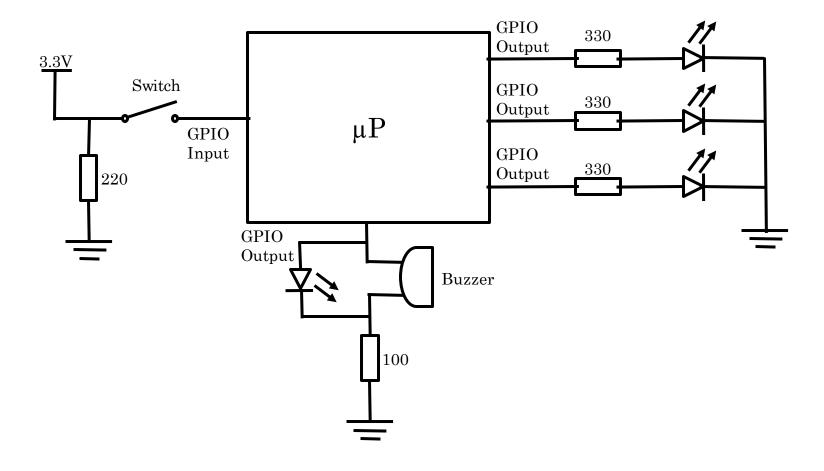


System Design

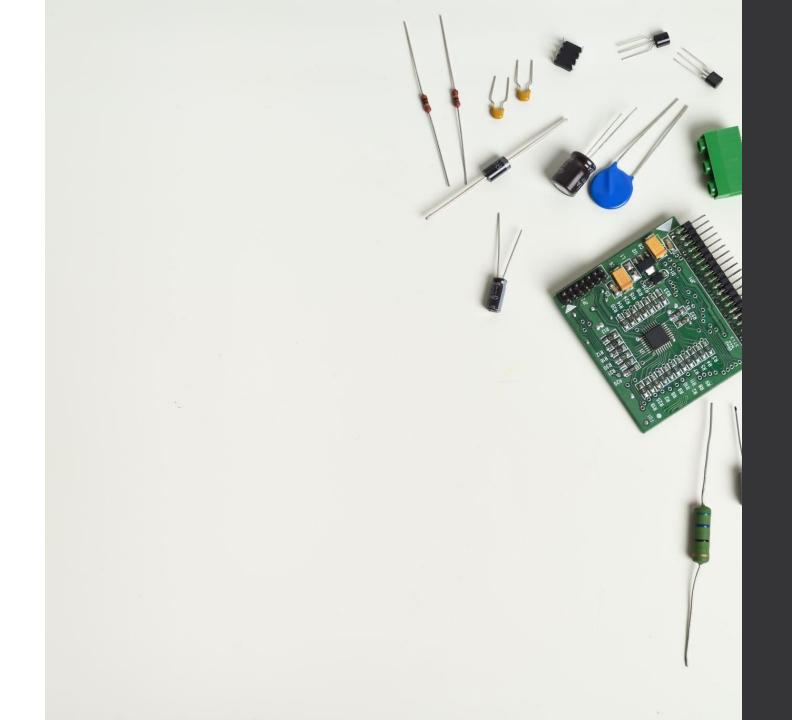


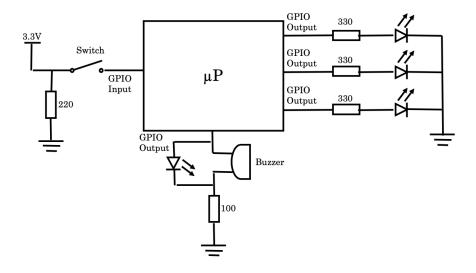
### Items to Incorporate:

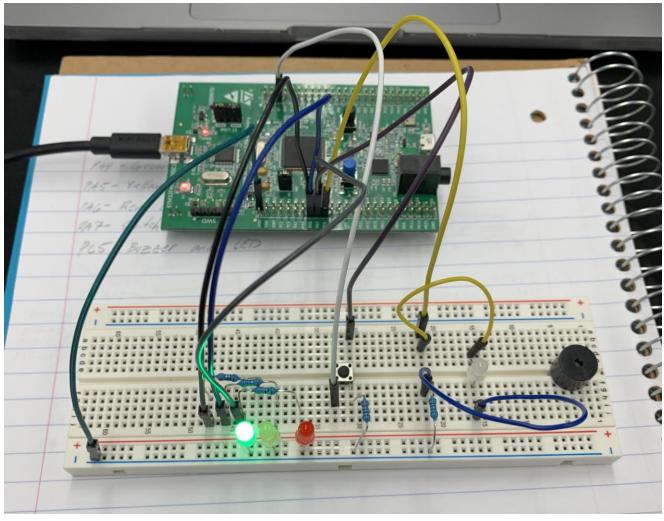
- Green LED
- Yellow LED
- Red LED
- A Switch for pedestrian input
- A Buzzer and LED for crosswalk indication



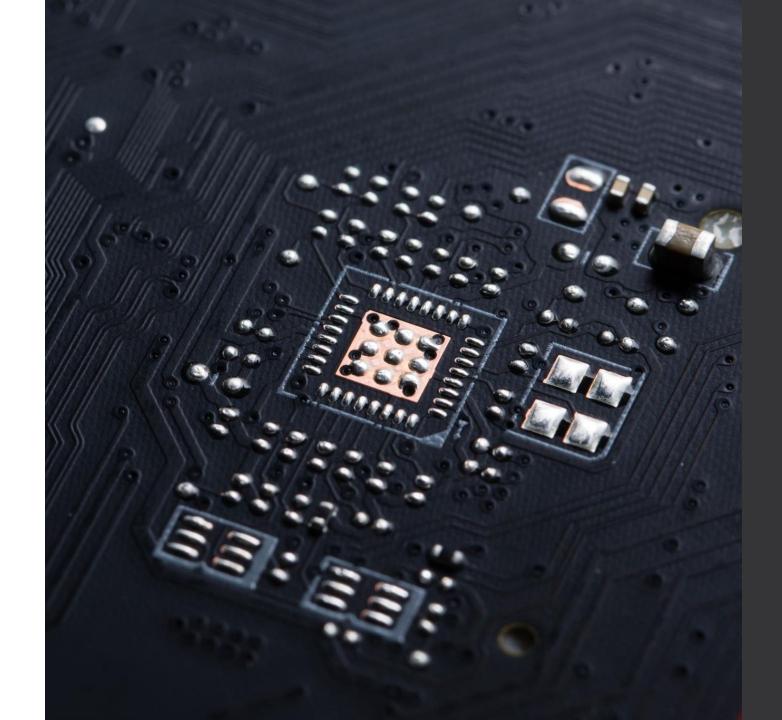
Prototyping



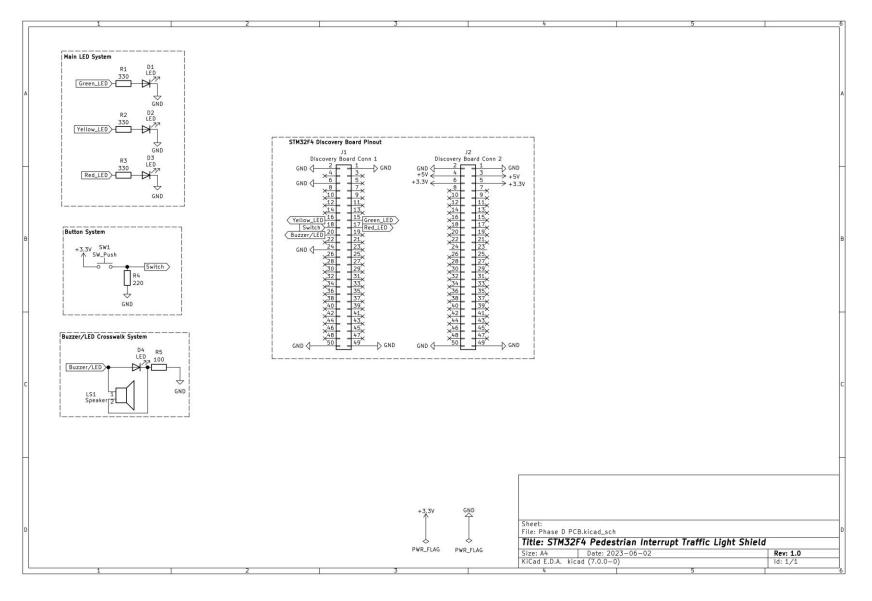


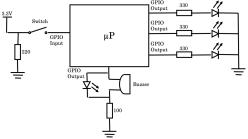


PCB Design

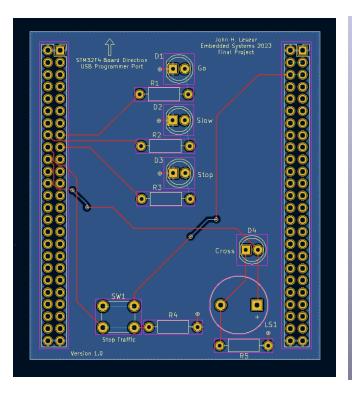


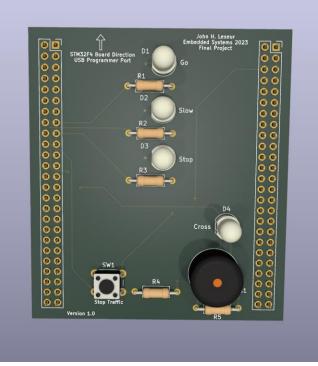
## KiCAD Schematic

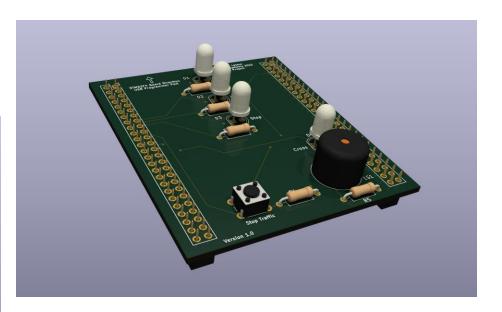


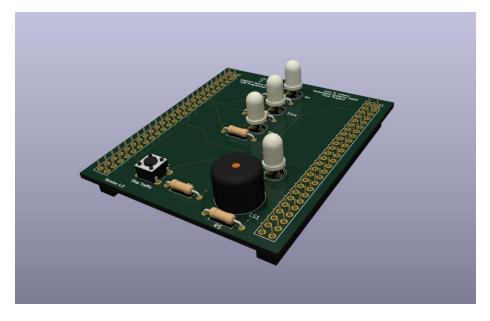


# STM32 Shield/PCB

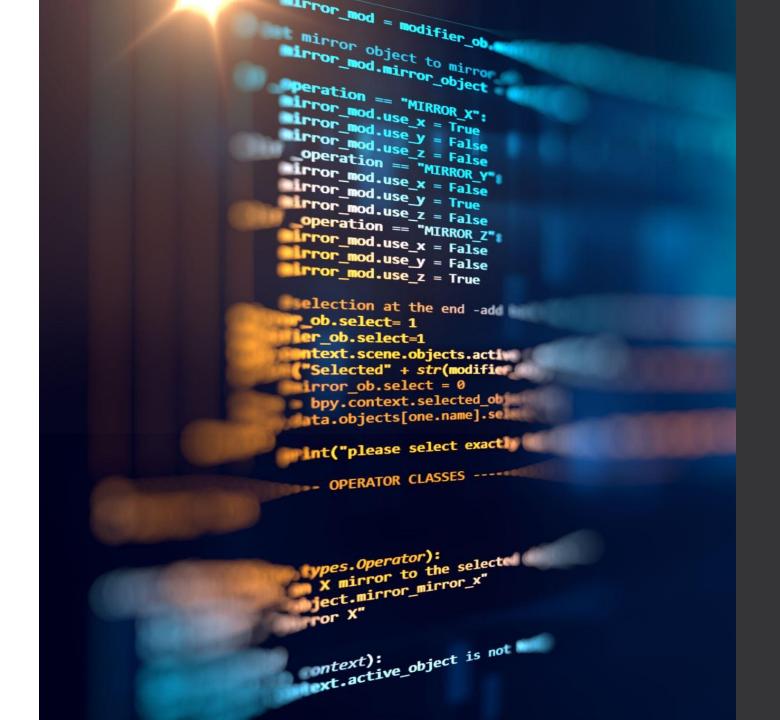








### Software Development



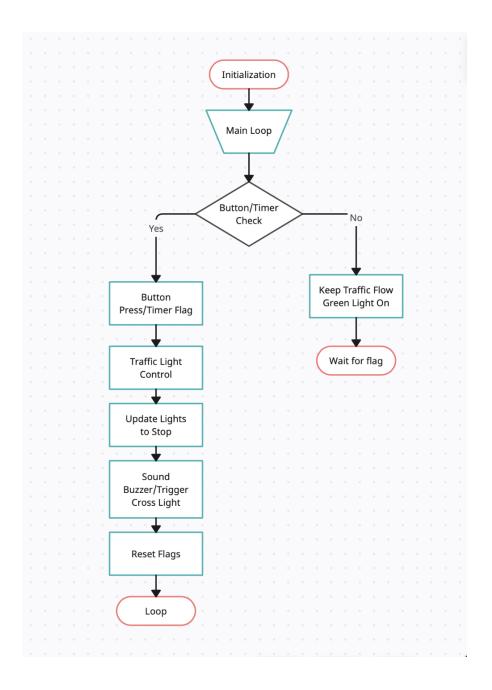
# Simple Flow Diagram

### Interrupts Used:

- Button ISR\_Flag
- Timer ISR\_Flag

Crosswalk lasts for 10 seconds before is back on.

Timer Interrupts every 10 seconds



# Final Implementation

