



Traffic Light Control System's Documentation

EgFWD
Embedded Systems Professional

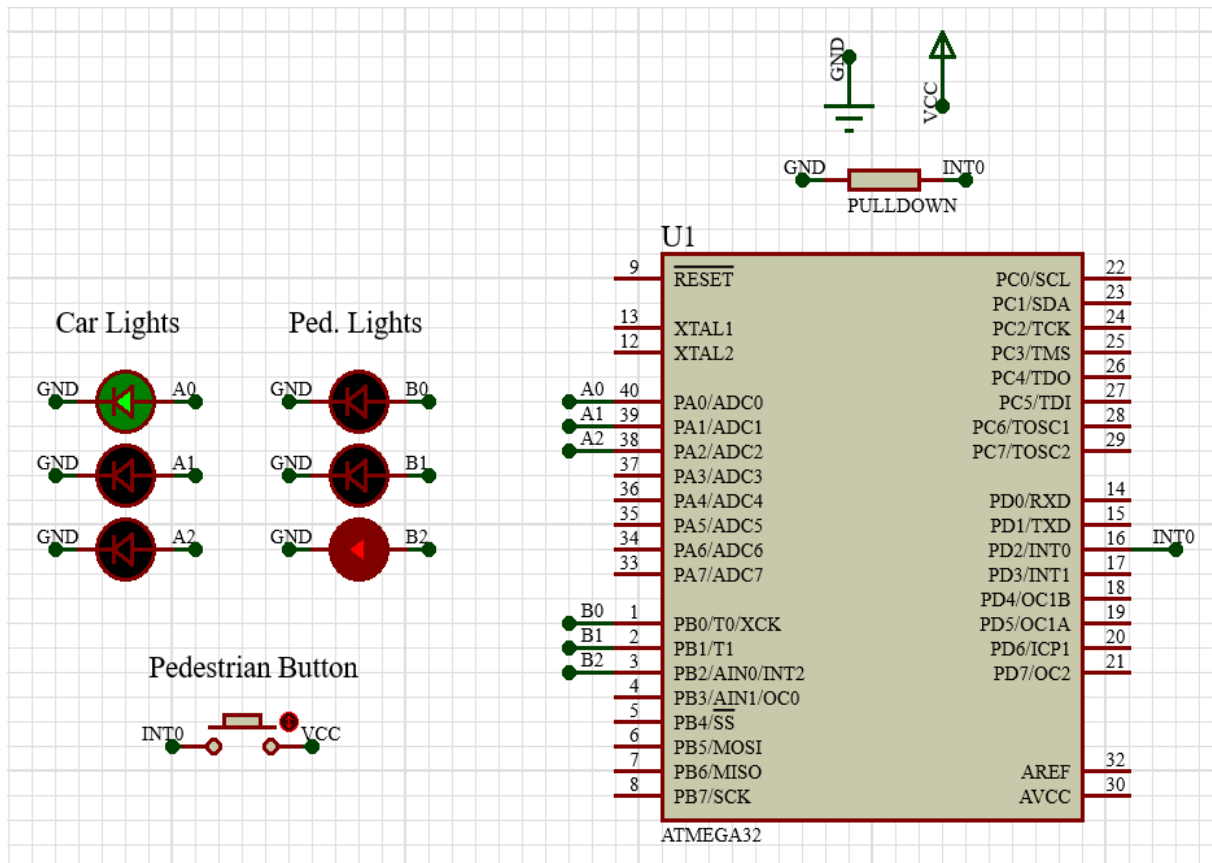
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System Description



The project is a simulation of a traffic light control system with 3 LEDs for traffic, 3 LEDs for pedestrians and an integrated push button for the pedestrians whenever they need to cross the street. The system operates in two modes:

- Normal Mode which is always active unless interrupted by a pedestrian wanting to cross the street.
- Pedestrian Mode which determines how the pedestrian's LEDs behave according to the current traffic LEDs.

System Design

The design requirements were:

- An ATmega32 microcontroller
- 2 green LEDs
- 2 yellow LEDs
- 2 red LEDs
- 1 push button

System's Flowchart

