

# On Demand Traffic light control Project

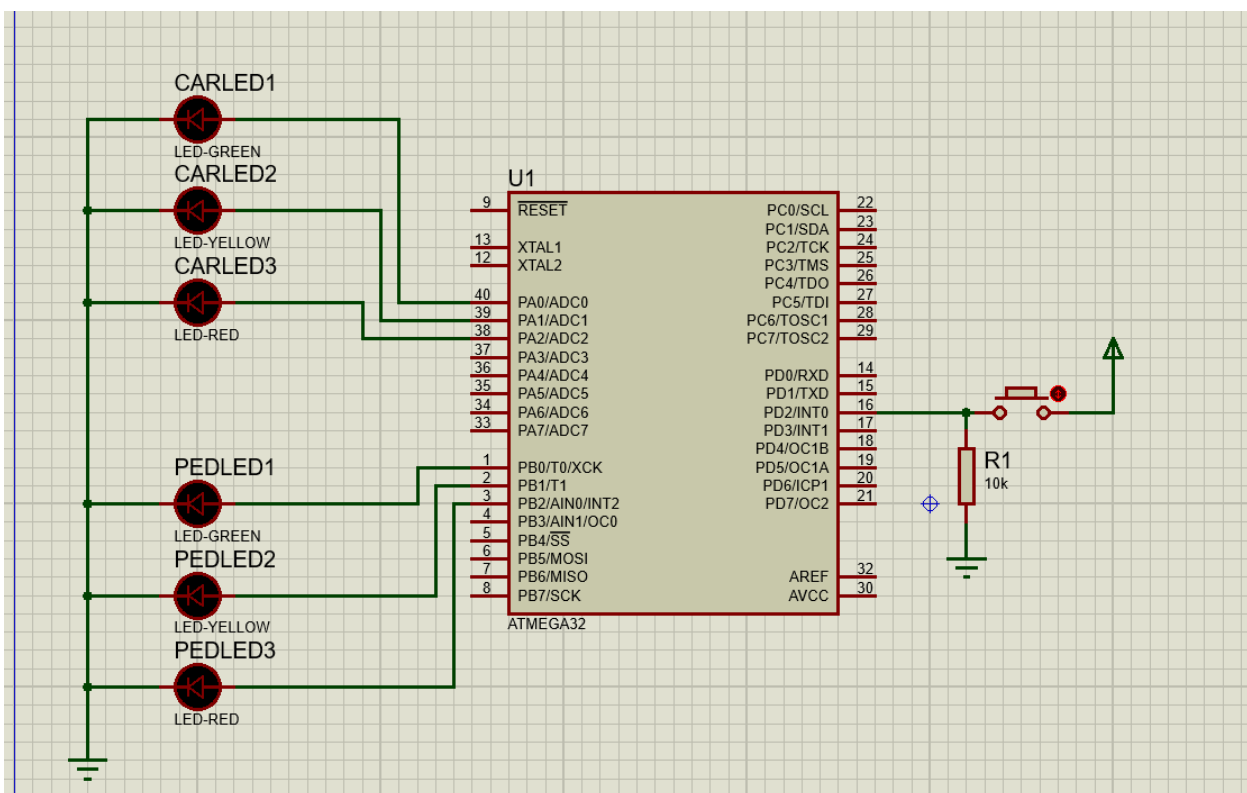
Project Document

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# System Description

The system provides access to pedestrians to stop traffic on demand so that they can cross the street. The system works as regular traffic lights such that green light is on for 5 seconds, then yellow light will blink for 5 seconds, and then red light will be on for 5 seconds, when the button is pressed and red light is on then the pedestrian green light will be on for 5 seconds. If it's pressed while the green light is on or yellow is blinking then pedestrians red will be on for 5 seconds and then both yellow lights will blink for 5 seconds and then pedestrians green will be on for 5 seconds and so on

# System Design



System consists of:

- ATmega32 microcontroller
- One push button
- 1 10k pulldown resistor
- 6 LEDs ( 2 Green – 2 Yellow – 2 Red)

# System Flowchart

