

# **Embedded Systems Professional Track EgFWD - Udacity**

## **On-demand Traffic Light control**

### **Project Documentation**

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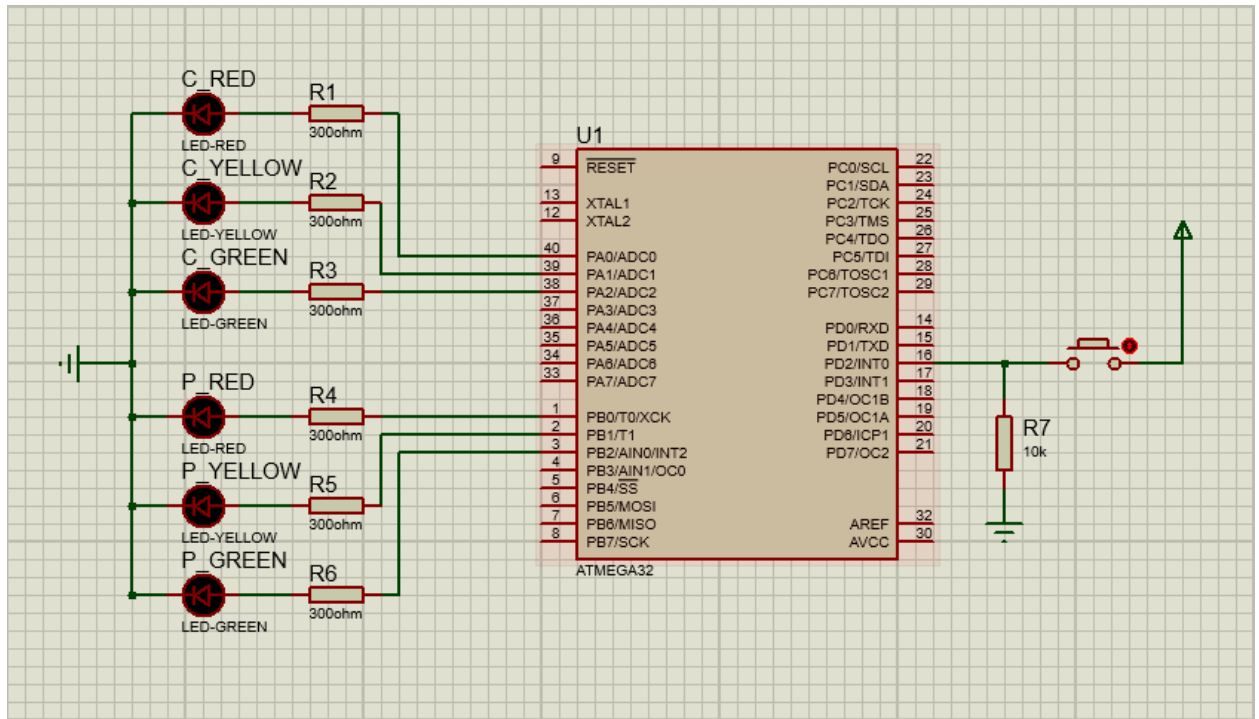
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# System description

## Overview

A traffic light system that enables pedestrians to push a button and cross the street. The system works with regular traffic lights that green light on for 5 sec then blinking yellow then red and so on. If the pedestrians push the button while the red light is on, the pedestrians green light will be on for 5 sec, if the button pressed while the green or yellow light is on the yellow lights will be blinking and the pedestrians green light will be on for 5 sec .

# System Design



## Requirement

- ATMEGA32 MICROCONTROLLER
- 2 RED LED
- 2 YELLOW LED
- 2 GREEN LED
- 6 300 OHM RESISTORS
- 1 10K OHM RESISTOR
- PUSH BUTTON
- POWER
- GROUND

## Flowchart

