

ECE 2700

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Traffic Light Controller

Group Members:

Camille Bilby
Connor Goetz
Mustapha Abbas
Ahmad Abbas

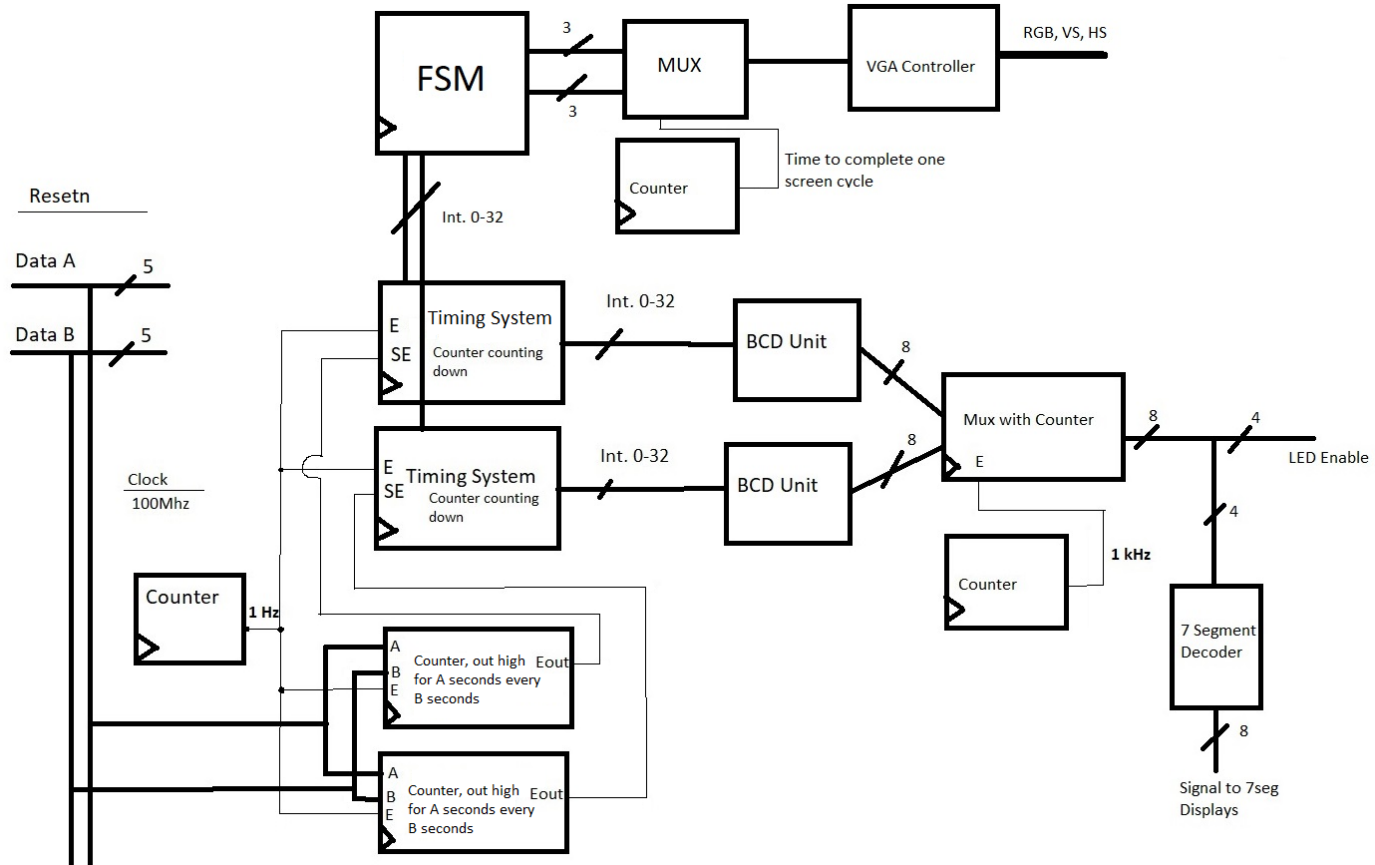
Introduction

- Designed 2-way intersection light signal
- Uses Nexys A7 50T board
- Switches
- VGA Port (Used for traffic signals)
- 7-Segment Display (Used for crosswalk signals)

Major Components

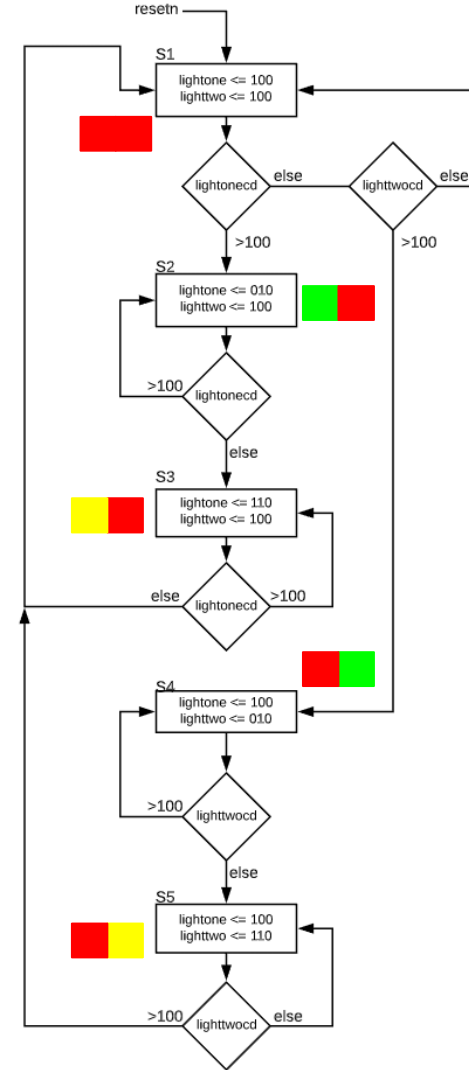
- FSM
- Crosswalk Displays
- VGA Display Component

Diagram



FSM Architecture

State changes occur based on lightonecd and lighttwo cd variables, and whether their value is greater than or less than 4.



Demo

