

# ENCM 511- Driver Project 3

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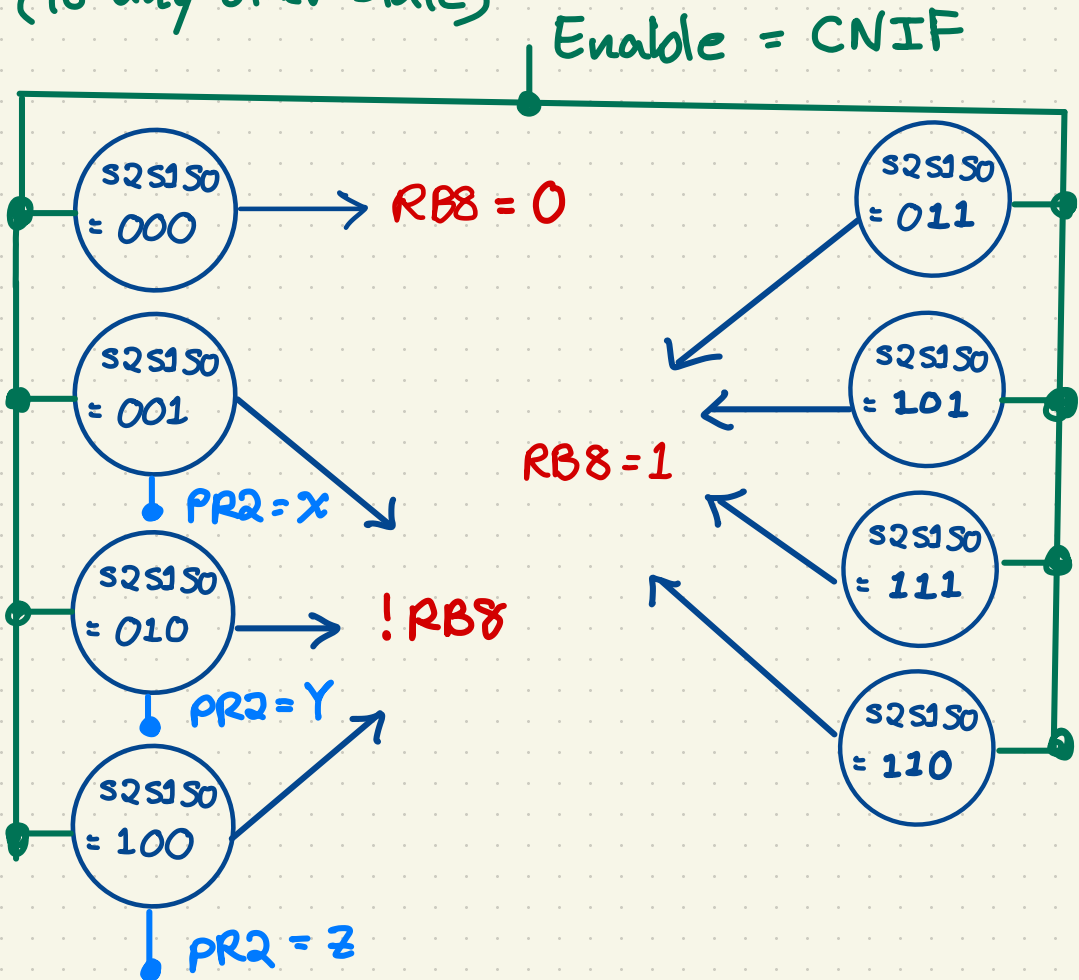
State Diagram

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- RA4 corresponds to S0 (PB1)
- RB4 corresponds to S1 (PB2)
- RB7 corresponds to S2 (PB3)
- RB8 is LED output

buttons\_pressed = S2 S1 S0

- State can switch when Enable = 1 (to any other state)



For states 001, 010, and 100, RB8 will update whenever PR2 has counted up to the specified number of clock cycles. The value in PR2 is calculated based on the blink period desired.

In this case,

$$X = \text{period1} / 0.064$$

$$Y = \text{period2} / 0.064$$

$$Z = \text{period3} / 0.064$$

where period1 = 500 ms,  
period2 = 2000 ms,  
period3 = 3000 ms

# List of tasks performed

## Kaleigh

- Video demo
- State diagram
- Debugging serial
- Coding CN interrupts

## Prabhu

- Coding/debugging CN interrupts
- Coding/debugging serial
- Assembling/debugging circuit

## Ivan

- Coding/debugging CN interrupts
- Coding/debugging serial
- Assembling/debugging circuit