

how long until 5?

## **project desc.**

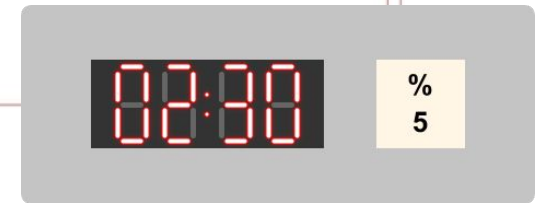
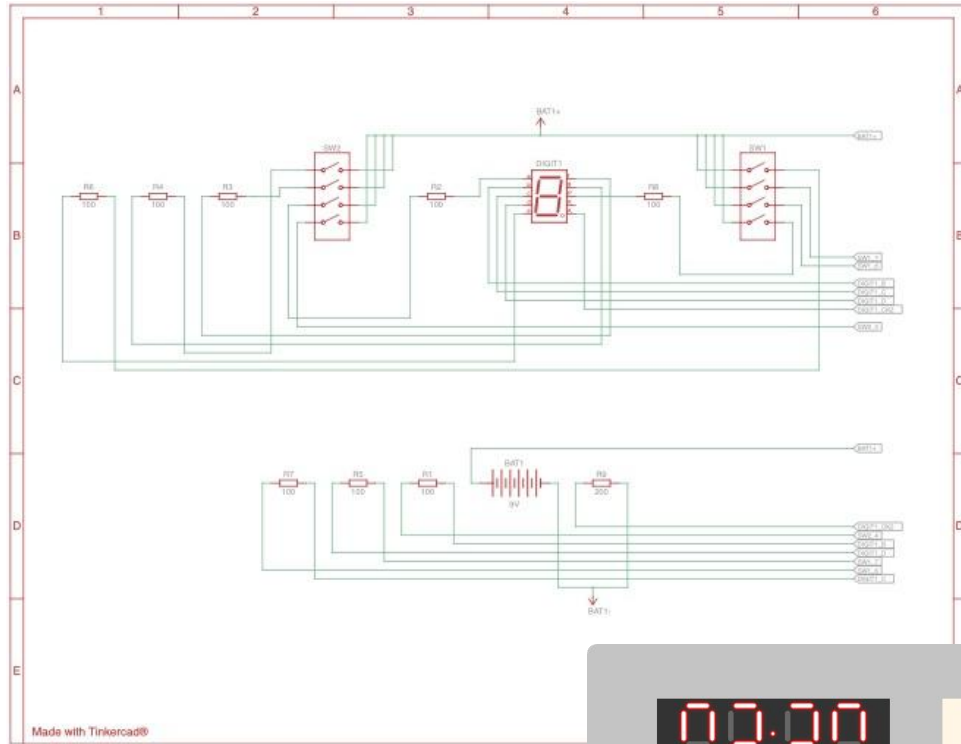
I intend to build a timer until 5 pm. This timer will have a single button that activates a 7 segment display showing how long until 5.

This project is useful as it displays information relevant to a workplace, while being useless by providing mundane information that does not need to be automated. I hope to poke fun at the automation of silly/mundane tasks and the monotony of the workday/workcycle.

## images + schematics

I intend to control the display through an RPi GPIO, using a script that responds to the key's input.

Circuit to the right reflects a single 7-segment display controlled by switches.



## materials

- Permanent Circuit Board
- Wires + Resistors
- RPi
- [Red 7-segment clock display](#) (\$3.95)
- Old keyboard key (input contact switch)

## tutorials

Using 7-segment display through RPi:

- [Interface Seven Segment Display with Raspberry Pi](#) by Smit Shah, Oct. 2020
- [How to drive a 7 segment display directly on Raspberry Pi in Python](#) by Alex Eames in RasPi.TV, Nov. 2015

Reading a button/switch input on a python script:

- [How to Use Push Buttons With Raspberry Pi GPIO \(with Python gpiozero\)](#) by M Heidenreich, Nov. 2020
- [Raspberry Pi Button Input](#) by BurgZerg Arcade, Jan. 2017

**inspiration**



*The Key*



*Dice Roll Calculator*

## **milestones**

1. Working python script (outputs the correct time until 5pm on given input)
2. Breadboard circuit
3. Permanent Circuit
4. Design/Print Case