

Project Kitchen Timer

System Design

↳ Precision

> Functionality

> Capability

> Cost

↳ Knob → w/ Conjunction of Button

> 99:99 max → min seconds

> Alarm

> Accurate timing

> Stop button

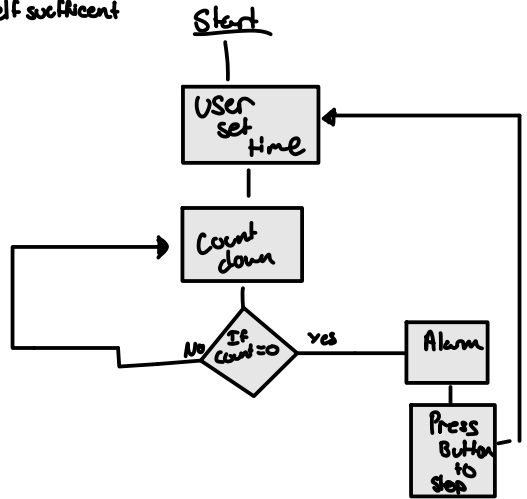
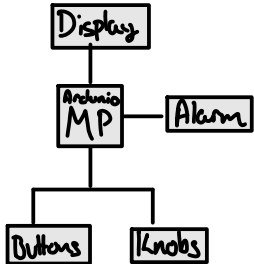
> 7 seg display

> Adjustable sound

> Magnetic/Strapped to stay up

> Battery Power - self sufficient

> Button to change whether min or sec



Design Discisions

- ↳ Debounce buttons
- > Buzzer Passive or Active?
- > Shift Register for display

Componet Selection

- ↳ Arduino
- ↳ 7 segment Display
- ↳ Buzzer

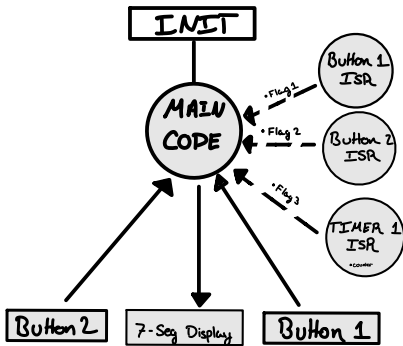
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<https://www.digkey.com/-/media/Designer/part-search/images/360.png>



Software Delvelopment

"Interrupt Pooling Driven"



"Simple Counter"

