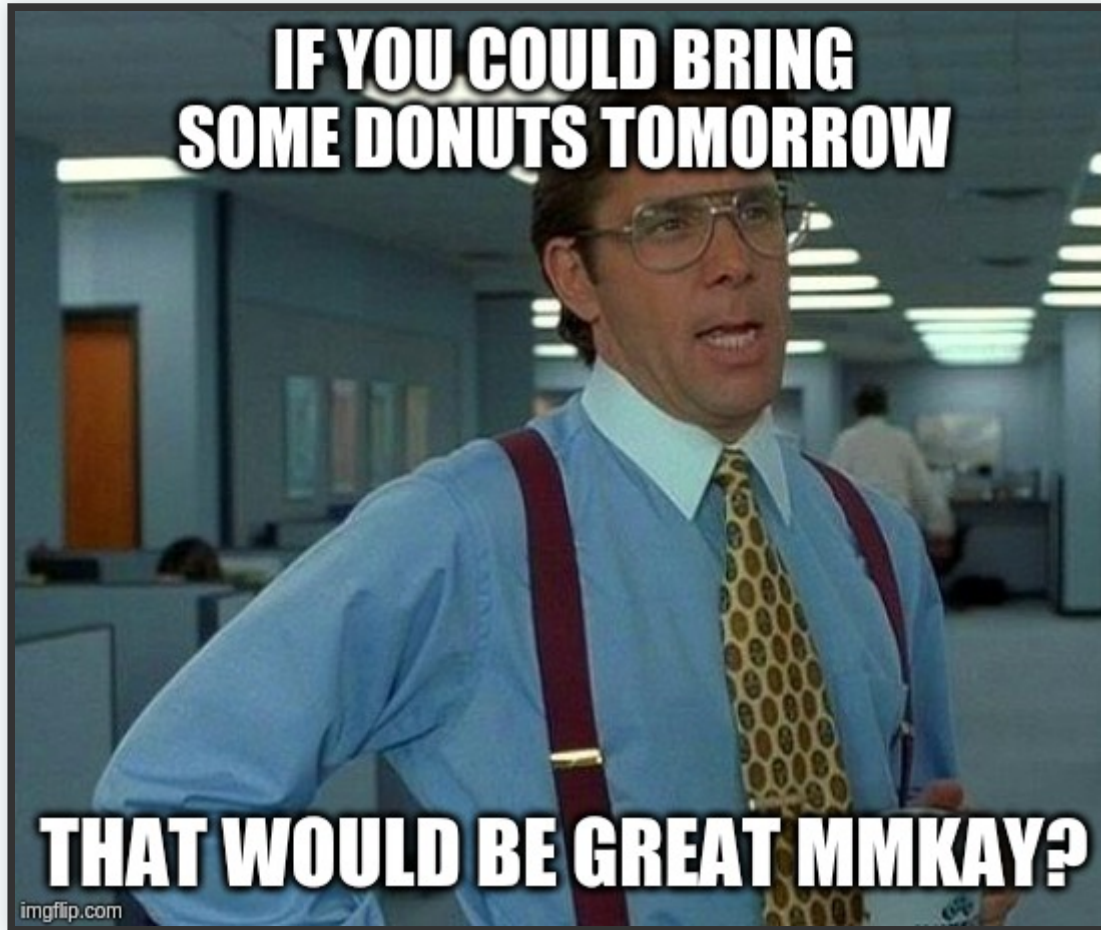


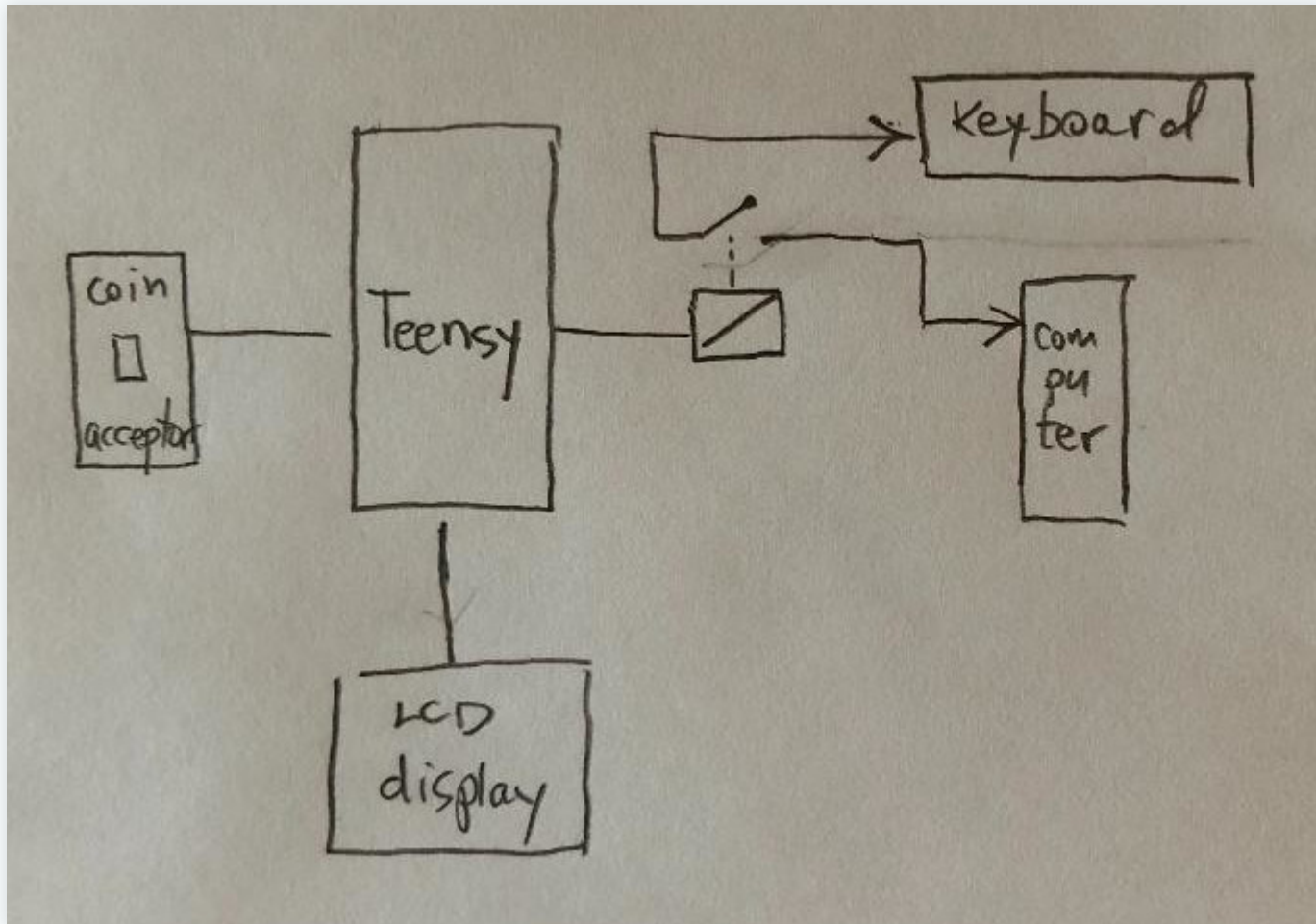
Donut Fund

by Natalia Leibenzon

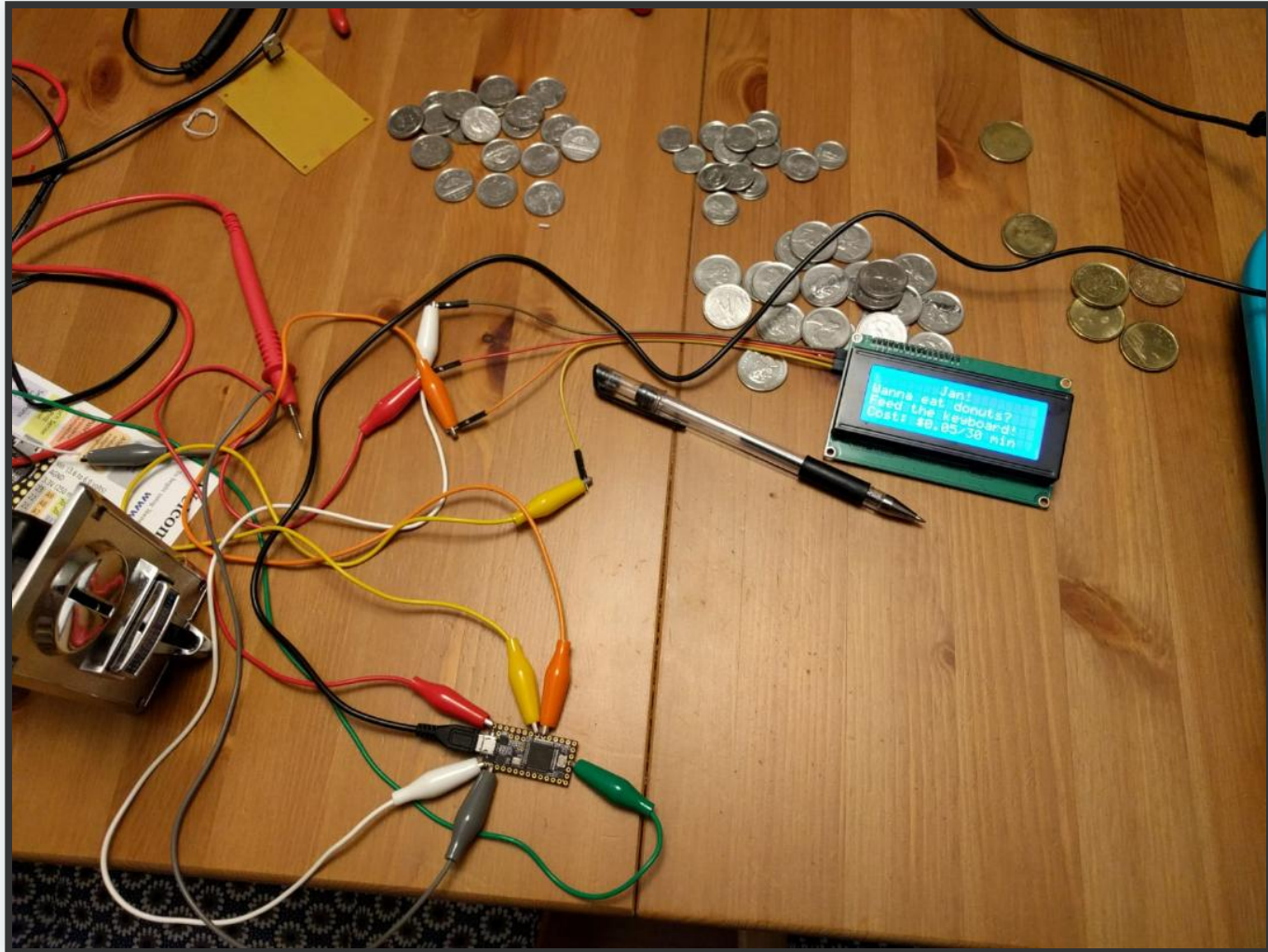
My Own Reasons



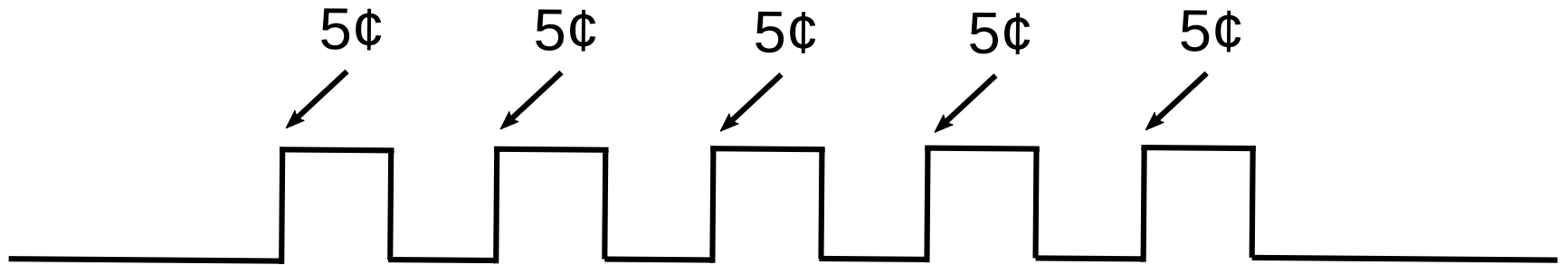
Schematic



Training Coin Acceptor



Inserting a quarter



Setting Up Relay Pin

```
//  
// Pin to connect/disconnect keyboard  
//  
pinMode(relayPin, OUTPUT);  
  
//  
// Turn the RELAY off by making the voltage LOW  
// (keyboard is disconnected)  
//  
digitalWrite(relayPin, LOW);
```

Setting Up Coin Acceptor Pin

```
//  
// If coinPin goes HIGH (a pulse),  
// call the coinInserted function  
//  
attachInterrupt(  
    digitalPinToInterrupt(coinPin),  
    coinInserted,  
    RISING  
);
```

Inserting a Coin

What Happens During Interrupt?

```
//  
// TIME_FOR_5_CENTS is 30 minutes  
//  
timePaidFor += TIME_FOR_5_CENTS;  
  
//  
// Increase total amount of the fund by 5 cents.  
//  
totalFundAmount += 0.05;  
  
//  
// Enable the keyboard  
//  
digitalWrite(relayPin, HIGH);
```


Time has run out!

```
if (runTime > timePaidFor)
{
    //
    // Disable the keyboard
    //
    digitalWrite(relayPin, LOW);

    timePaidFor = 0;
}
```

Boite en Bois



Jammed Inside



Final Product



The end

