

# How to build your own edging machine

## 0. Introduction (nothing interesting here, just some blabla)

I like Tease and Denial and everyone who does is dreaming of a machine that drives him mad with lust by always stopping right before you reach an orgasm. I built such a machine. It's not absolutely perfect, but it's easy to assemble and more or less affordable. I give this document and all the ideas delivered within to the world for free. I read some other posts where people started to built their own and were all talkative about the project, but as soon as they made real progress there were sentences like "I wanna make a product out of it and get rich". Fuck this. Get horny, I say :)

So with this in mind, I wish you as much fun with this machine as I have! Do with my idea and its implementation what you want. It's even okay with me that you make a product out of it and get rich. But if you really do: Please try to get in touch with me and send me a free example ;)

My email: tnd365@gmail.com

For those of you who have problems building this thing: It's a rare event that I check this email for new mails, since it's mostly an email for my porn accounts. So pleeeeee use google and your own brain to solve problems. If there are any errors in this document...deal with it. I made this as properly as I could.

For the females amongst you: Sorry, but this will only work for men...I'd built some for you too, but my girlfriend is not into TnD as much as I am, so she won't volunteer as test person...But maybe this implementation gives you some ideas on how to adapt this version for a vagina :)

Since this thing involves electricity and americans may built such a machine: I am not responsible if you hurt yourself. It's nearly impossible, since we are dealing with ~5 Volts, but you never know. Think before you try something that might be a stupid idea and don't blame me if it goes wrong :)

Okay, that's everything from my side...let's start building stuff!!

## 1. Shopping list

Before you can really start, there are some items you need to get your hands on. You're going to use an Arduino board for this. Of course, you can buy all the things separately, but I can highly recommend the **Funduino Starter Kit**. It's exactly the same board as the official Arduino (this is okay, since the Arduino board is open sourced) and comes with so many items that the edging machine won't be the only thing you can use it for.

Here is an amazon.de link: <http://www.amazon.de/dp/B00CR1FAS2/>

Unfortunately I couldn't find the Kit on the US store of Amazon. Anyway, you're gonna need these parts of the Kit for this evil project:

- 1x Arduino Uno
- 1x Breadboard
- 1x Button
- 1x 100Ω Resistor
- a few (extension) cables for a breadboard

Moreover you need these things

- 1x Flexiforce Pressure Sensor 25lbs. (<https://www.sparkfun.com/products/8712>)
- 1x Vibration motor (<https://www.sparkfun.com/products/8449>)
- 1x 2MΩ or 2x 1MΩ resistor (<https://www.sparkfun.com/products/11852>)
- an USB cable to power the Arduino and connect it to your computer
- some scotch tape
- 1x scissor
- 1x empty loo roll (yep, this is the fun part)
- Unfortunately a soldering iron and solder tin (sorry for that, but it's really easy! I swear!)

I bought all these things one after another, so it wasn't a one time investment to me. I think everything together will bring you down some \$100, which may be a lot. But if you are not only interested in goofing yourself away, you can do very cool things with the Arduino set. The StarterKit comes with all kinds of sensors and tools that you can use for other purposes, so you might actually learn a lot new stuff with this as well :)

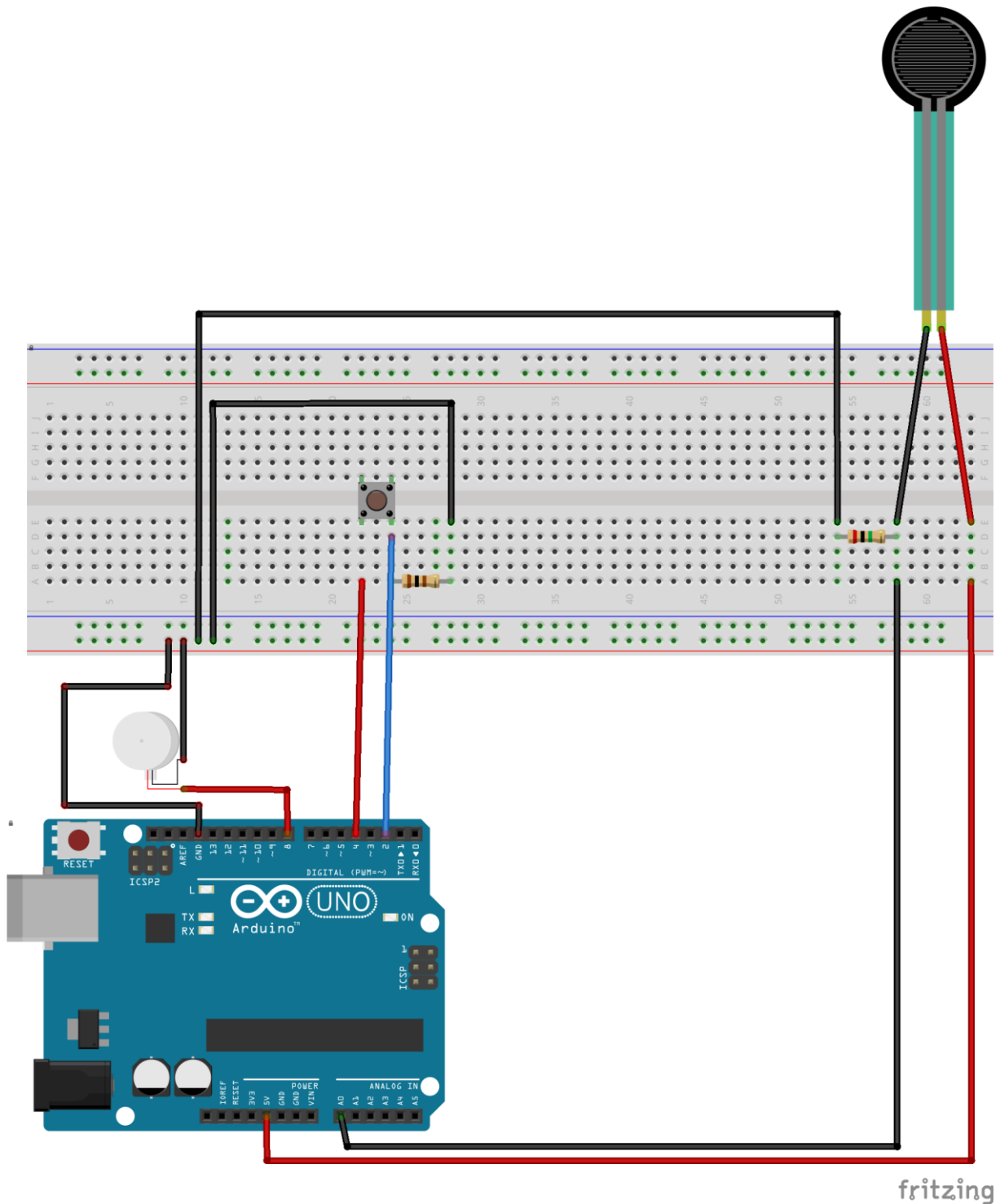
## 2. CONNECT ALL THE CABLES!!! (...and solder once)

First of all: Get to know your Arduino. Here are some very helpful links, so you can start right away:

<http://arduino.cc/en/Guide/Windows>

<http://funduino.de/index.php/anleitungen> (german)

Once you connected your Arduino and installed the software, you should be able to get some LEDs blinking. After that you should be able to understand this:



Looks simple, right? Here is what it does:

- The **vibration motor** vibrates (guess what...) as soon as there is output on **PIN 8**.
- The **pressure sensor** gives a value between 0 and 1023 into **PIN A0**. If you couldn't find a 2 Megaohm resistor, just put two 1 Megaohm resistors in series. If you don't know what that means, just take one 1 Megaohm resistor only...it should also work. The only difference is the granularity of the pressure input. It gets more sensitive with more resistance.
- You will use the **button** to tell the software that you just reached your (first) edge and the software will go into EDGING-MODE muuuuhahaha. **PIN 2** is used to recognize that the button was pressed. You need a 100 Ohm resistor between the button and the grounding. This is called a "pull down"-resistor. If you wanna know exactly what it does, then ask Google...not me.
- Every component (button, vibration motor, pressure sensor) needs to be grounded, of course. You can collect all the "ground"-cables on one part of the breadboard and then connect them to one of the **GND-PINs** on the Arduino all together.

Unfortunately the vibrator motor doesn't come with breadboard-friendly pins. So to connect it properly, I recommend to solder 2 breadboard cables on the small vibrator cables and isolate them with some tape. This is really really easy, you don't even have to be very accurate. Just put some fluid soldering tin between the breadboard cable and the vibrator cable and shortly wait until its hard again. A very fun and easy to understand introduction to soldering can be found here:

[http://mightyohm.com/files/soldercomic/FullSolderComic\\_EN.pdf](http://mightyohm.com/files/soldercomic/FullSolderComic_EN.pdf)

### 3. Let there be code

The last (technical) thing you need to do, is to upload this Sketch to your Arduino (for easier copy/paste use the pastebin URL):

<http://pastebin.com/NLBYaC57>

```
// personal settings
int const DELAY_FACTOR = 40;

// pin vars
int buttonPower = 4;
int buttonPin = 2;
int motorPin = 8;
int sensorPin = A0;

// timing vars
int maxValue = 80;
long delayInMillis = 0;
long waitUntil = millis();

// state vars
int buttonPressedState = 0;
int sensorValue = 0;
boolean motorIsRunning = false;
boolean edgeReached = false;

void setup()
{
  pinMode(motorPin, OUTPUT);
  pinMode(buttonPin, INPUT);
  pinMode(buttonPower, OUTPUT);
  digitalWrite(buttonPower, HIGH);
  Serial.begin(9600);
}

void loop()
{
  // read pressure and button state
  sensorValue = analogRead(sensorPin);
  buttonPressedState = digitalRead(buttonPin);

  // button pressed => go into edging mode
  if (buttonPressedState == HIGH && !edgeReached) {
    stopMotor();
    edgeReached = true;
    String debug_edgeValue = "EDGE! Threshold set to: ";
    Serial.println(debug_edgeValue + maxValue);
  }

  // new maximum pressure
  if (sensorValue > maxValue) {

    // if no edge was reached => save new maximum value
    if (!edgeReached) {
      maxValue = sensorValue;
    }

    stopMotor();
  }
}
```

```

// start motor after cool down time
if (millis() > waitUntil && !motorIsRunning) {
    digitalWrite(motorPin, HIGH);
    motorIsRunning = true;
    Serial.println("start motor");
}
}

// called when new maximum pressure was reached
// or if edge pressure was reached
void stopMotor() {
    digitalWrite(motorPin, LOW);
    motorIsRunning = false;

    // use pressure value to calculate cool down time using DELAY_FACTOR
    delayInMillis = sensorValue * DELAY_FACTOR;
    waitUntil = millis() + delayInMillis;

    // some debug info
    String debug_maxValue = edgeReached ? "keeping edge on: " : "new
maxValue: ";
    String debug_stopMotor = "stop motor and wait for ms: ";
    Serial.println(debug_maxValue + maxValue);
    Serial.println(debug_stopMotor + delayInMillis);
}

```

I commented the Sketch here and there, so it should be possible to understand what's going on. If you need more explanation, read the last chapter on how to use the edging machine. The things going on in the Sketch are explained there.

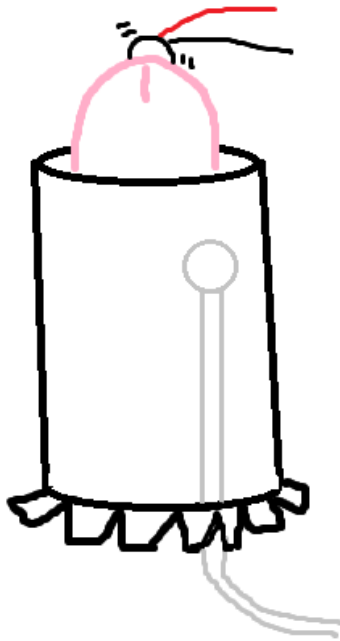
#### 4. A loo roll? Seriously?

Yes, seriously. I read a lot of forum posts where people tried to find elaborate or even medical methods for detecting an edge automatically. That was crazy stuff sometimes...with blood flow detection, infrared detectors, PC muscle sensors, penis girth sensors and what do I know... There had to be an easier way and there is: You! Noone else knows better when you're close to cumming than yourself, right :)

So the next step was to find a way to only approximately(!) detect an edge. And for this we use the pressure sensor. You cannot deny that your dick gets bigger the closer he gets to an orgasm, so all we have to do is to press your dick against something and measure this pressure.

So here you go: Use the scotch tape to tape the pressure sensor on the inside of the loo roll. Then put your (flacid!) penis into the loo roll and make it hard. Make yourself comfortable in the loo roll and then apply the vibration motor on the tip of your hard penis. Ready to go! Until now, I had the best results when the sensor is placed in the upper half of the penis/loo roll.

Look, I even made a Paint drawing for you:



So again: Your dick is in the loo roll or any other cylinder it feels good in. The key is that a loo roll is just a little bit too small for the average sized penis (like mine...) to reach its full glorious potential in size. Therefore it presses against the roll from the inside where the pressure sensor is taped.

## Two more tips:

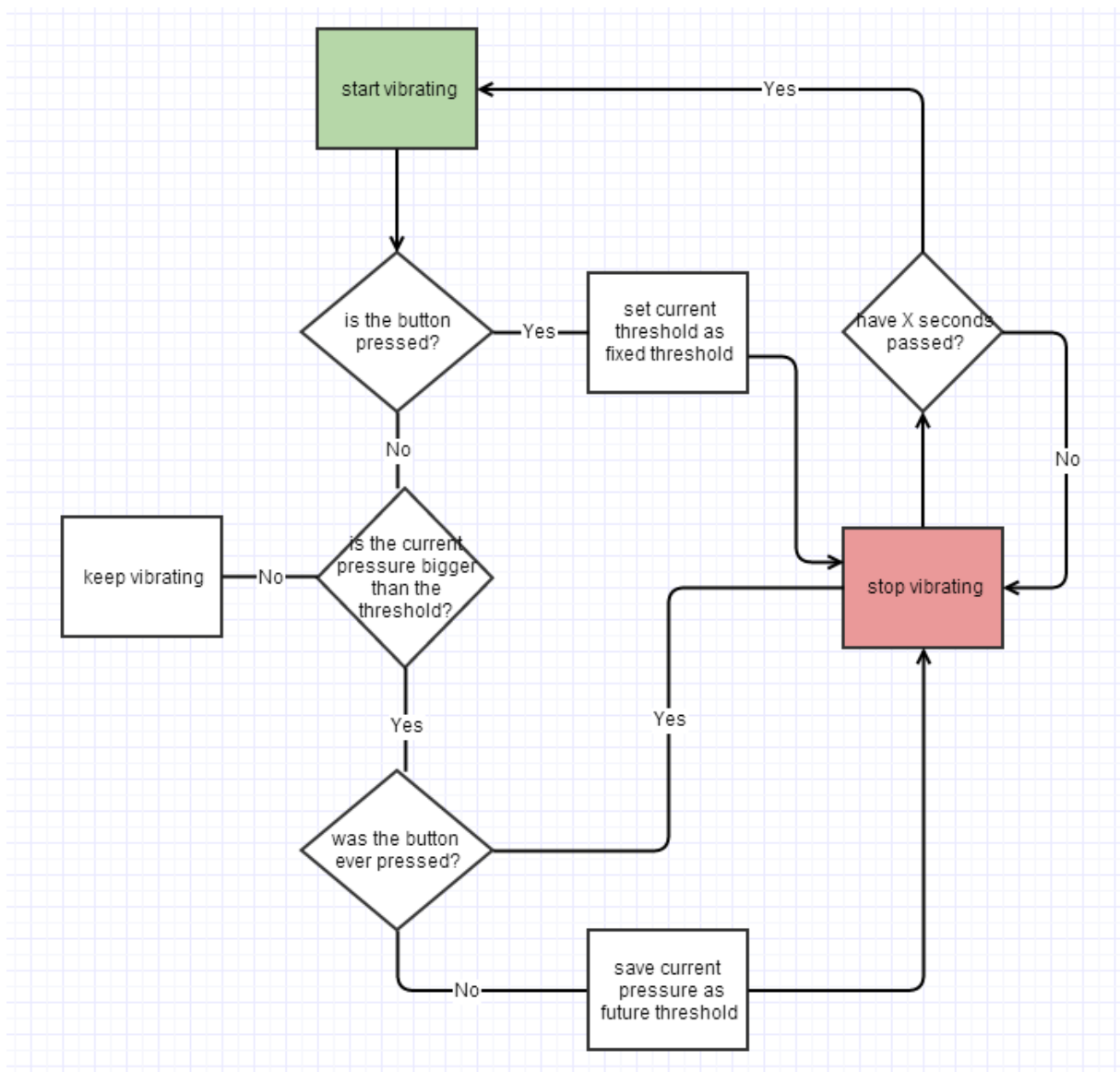
1. I cut the lower edge of the roll a few times with the scissor (see my beautiful drawing). This way the roll is a) more comfortable to wear and b) avoids the pressure sensor to veer or get damaged otherwise.
2. I put the vibration motor into some latex (use part of a condom or one-way latex gloves) to prevent it from getting sticky from all the precum that will dribble out your cock. I have no idea if precum/semen is conductive, but on the other hand I don't wanna find out anyway...

## 5. Okay, I put everything together. How do I use this thing?

Are you all set up? Dick in a roll? Arduino powered? Pornstash opened?

If you're lucky: Girlfriend waiting to torture you?

Alright, then here is a flowchart on how the logic works. The only thing YOU have to do is to press the button as soon as you think "Okay, this last trip was close...the next one might bring me over the edge."



## 6. Some last words

### 6.1. What about the X seconds?

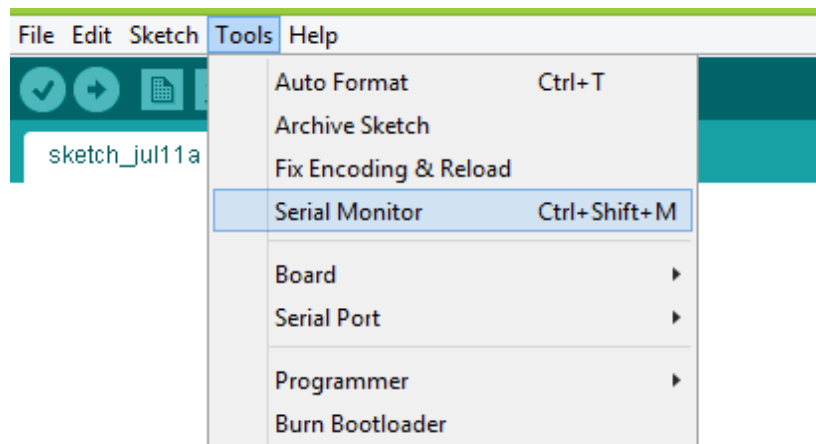
In the first line of the Arduino Sketch, you'll find the line:

```
int const DELAY_FACTOR = 40;
```

This number is multiplied with the input value of the pressure sensor. The result is the time the vibrator will shut off (in milliseconds: 1000ms = 1 second). You can edit this value as you like.

I recommend to open the serial monitor from the Arduino IDE.

To do so, press Strg + Shift + M or go to "Tools" => "Serial Monitor":



With this monitor you can see the pressure values and when you reach a new maximum. It's fun to watch as the number goes higher and higher :) My edge is usually around 270, but I guess this hugely differs, depending on the position of the sensor, the size of the penis/roll and the resistor put in front of the pressure sensor...

### 6.2. I've already gone stupid of horniness and can't understand this flowchart..

#### Please explain in words!

The idea is that the Arduino uses the pressure that your dick applies to the sensor as a threshold. This threshold starts at 80. So as soon as your cock does more pressure than 80, this new maximum pressure is the new threshold. Also, the vibrator stops for

```
<threshold> * DELAY_FACTOR milliseconds
```

This goes on and on. At first there will be many stops with short breaks. As soon as your dick is really hard, the stops will become less frequent, but with longer stops (depending on your DELAY\_FACTOR).

The fun part starts when you press the button. From this moment on there will be no "new maximum pressure value", but the last threshold will always be used. This means that whenever you get as hard as you were when you pressed the button, the vibration will stop.

### **6.3. Is this thing always working?**

It depends on the time you press the button. If you press it too early you will never cum for sure, but you'll also not get very close to an edge. If you press the button too late, you may reach an orgasm, yes. It's up to your own judgement, when you think that the time has come to push the button (wow, ChemicalBrothers reference...)

What I can guarantee you is that you will only get ruined orgasm with some after-orgasm-torture. During an orgasm you will definitely go over the current threshold, so the vibrator will definitely stop and ruin your orgasm. But after some seconds (when the orgasm is over), it will start again to tickle your dick.

### **6.4. The vibrator is not very strong..is there a better solution**

This also bothers me. It's actually quite difficult to reach an edge with the vibrator I've linked above, but it's possible if you have time. In the future, I will try to use a commercial vibrator and try to connect it to my Arduino, but this is a future project. Until now, I am very happy with what I got.

If you should stumble over a stronger vibration motor for the Arduino, please email me a link. My email is hidden in the Introduction ;)