DIY SABER

TODO:

Step up voltage? **TPS6120x**

Architecture

Diagram, schematic

Description automatically generated

A picture containing text, person, indoor, hand

Description automatically generated

Obsidian soundboard

18650 Lion battery (UNPROTETED) 18mm

Arduino nano

length of 45 mm and a width of 18 mm

~25mm clearance in poly carbonate tube

https://efcomputer.net.au/blog/light-saber-build-part-1/s

Core Features

Latch clash

Store config in eeprom

-mpu calibration  
 Remember last color

Watch dog timer?

Flash on clash

Black first before flash on clash?

Tip drag

Ignition and Retraction Scrolling

* Ignition has a shadow/ less bright color leading at the tip
* Duration variable
* Retraction has the tip flashing bright purple

Smooth swing

<https://www.reddit.com/r/lightsabers/comments/gkuss0/the_responsiveness_on_this_makes_it_feel_like_a/>

[SmoothSwing V2 demonstration](http://therebelarmory.com/thread/8646/smoothswing-v2-demonstration)

* Gyroscope

Shimmer

* “breathes” on and off slightly

Color change button

Custom sound fonts

Shoto by Madcow on Saberfonts.com

Bright swing

* Slightly brighter during a swing
* https://www.reddit.com/r/lightsabers/comments/t5ublu/i\_love\_this\_effect\_called\_bright\_swing\_on\_my\_new/

Stab detection