

EDGAR DE LA RUBIA LECHADO
FABLAB LEÓN


## DESIGN

- TEXTILE VINYL
- PLOTTER
- THERMO ADHERED


## HARDWARE

-ARDUINO PROTOTYPE

- R F ID
- NEOPIXELS



## SOFTWARE

## -RFID CODE

- CARD UID (FRIEND OR NOT)
- NEOPIXELS CODE

```
#include <SPI.h>
#include <MFRC522.h>
#include <Adafruit_NeoPixel.h>
#define NUM_LEDS 6 // Number of NeoPixels
#define PIN 7 // DIGITAL pin # where NeoPixels are connected
#define RST_PIN 9 //Pin 9 para el reset del RC522
#define SS_PIN 10 //Pin 10 para el SS (SDA) del RC522
MFRC522 mfrc522(SS_PIN, RST_PIN); ///Creamos el objeto para el RC522
Adafruit_NeoPixel strip = Adafruit_NeoPixel(NUM_LEDS, PIN, NEO_GRB + NEO_RHZ800);
```


## COMPONENTS

- DESIGN NEOPIXELS
- SPLIT TRIP
- PLOTTER
- FLEXIBLE COPPER
- SPECIALVINYL



## COMPONENTS

- SEW LEDS TO THE CLOTHES
- USE CONDUCTIVE THREAD TO LINK THE PIECES
- TEST



## ASSEMBLY



## FINAL TESTS

- ARDUINO LILYPAD
- EXTERNAL POWER SUPPY(>5V)


## FINAL ASSEMBLY

- RFID + CARD (ACTIVATE THE SYSTEM)
- CARD SENSOR ON ARM (SWITCH OFF)



## FINAL ASSEMBLY



