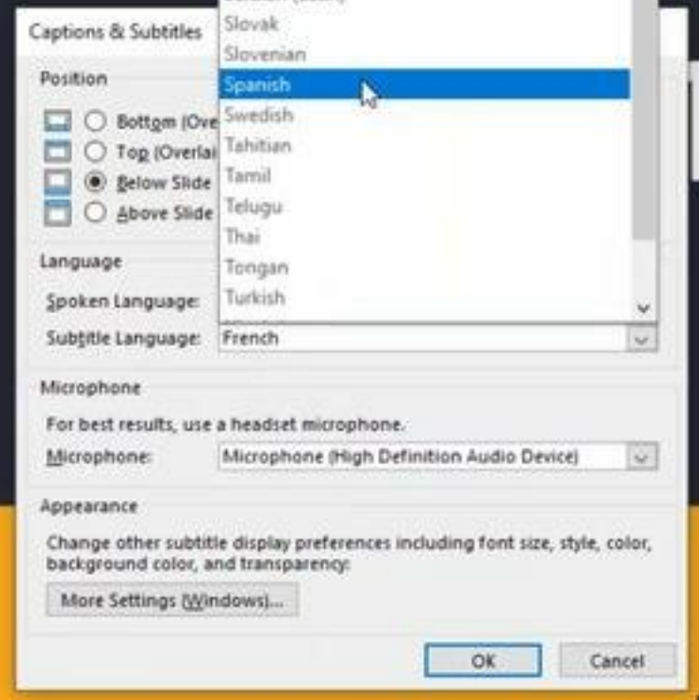
Hardware - Hunny



Hardware Hacking 101
- Hunny

Hello!

I'm Hunny

- Volunteer/Member of Hack Miami & Defcons Hardware Hacking Village
- You can find me at @Hunny1506 in the %27discord

Disclosures and Liability Statement

Harmful Substances

In the process of Hardware Hacking it is PROBABLE you will encounter substances known to cause cancer in California...

- Lead/Heavy Metals
- Noxious/Harmful/Toxic Fumes
- High temperatures

Legal/Liability Statement

You are responsible for your own safety, and compliance with local, state, federal, and/or national laws.

Also... you WILL void the warrantee and violate the terms of use/service

Futurama- Overclockwise

Recommended Safety Equipment and Conditions

- Well ventilated space to assemble and disassemble
- Respirator/Mask
- Eye Protection
- Heat resistant gloves/tools/clothes/surface
  - Natural (non-meltie) fibers
- Heat tolerant work surface

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Alteration of an electronic device or machine that makes it do something outside its original function.

But also...

Fixing

Repurposing

Making your own use

Tools Recomended

iFixIt Kit

Is considered the go to disassembly kit

Chip/board/component/ sensor interface

The tool that lets you interact with chips and/or components

Logic Analyzer/Occiloscope

Records signals that can be translated

Soldering set up

Solder, Iron, mat, rosin, desolder, helpng hands, clamps, tweezers

Computer with HH tools

HHV Plug- Kali with the cool tools available here

Google.... Github.... Redit... some raspberry pi and arduino can't hurt either

Common protocals

Inter-Integrated Circuit (I2C)

Universal Asynchronous Receiver/Transmitter (UART)

Serial Peripheral Interface (SPI)

Jtag-

Not a protocal.

Multi protocol, variable voltage tools

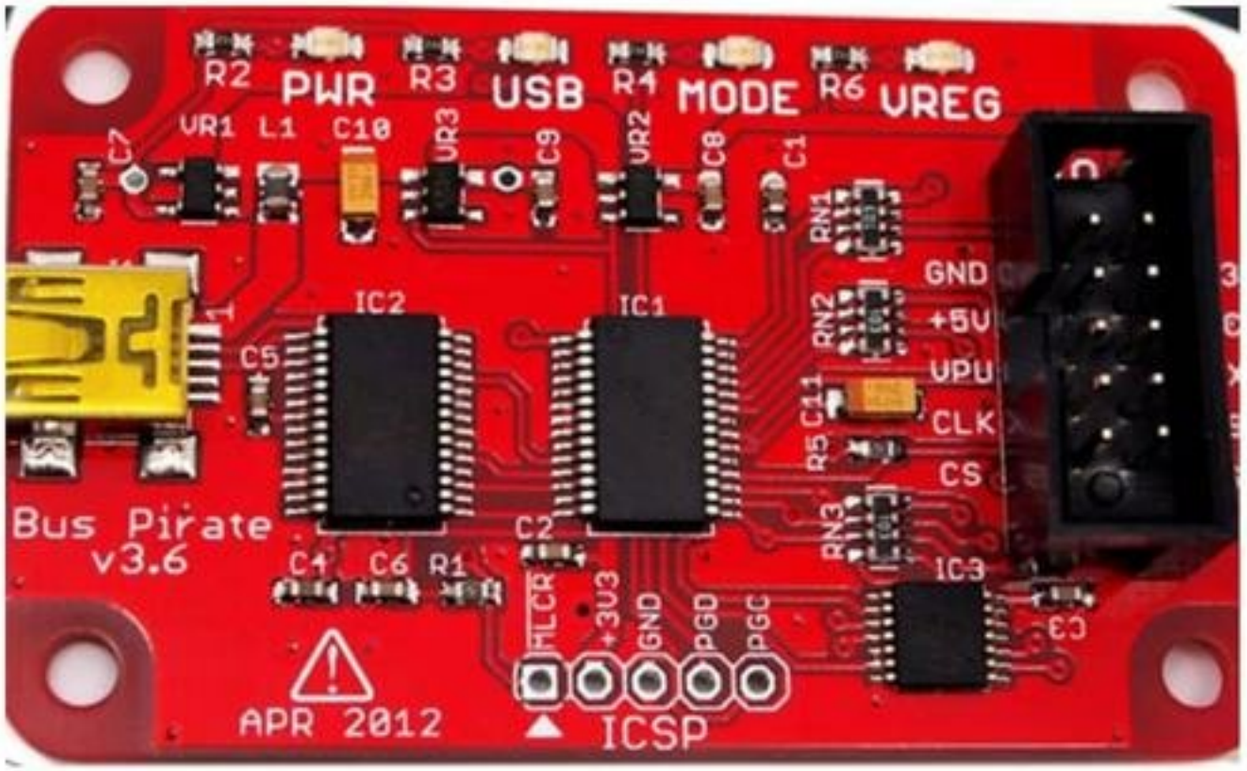
Tigard

Bus Pirate

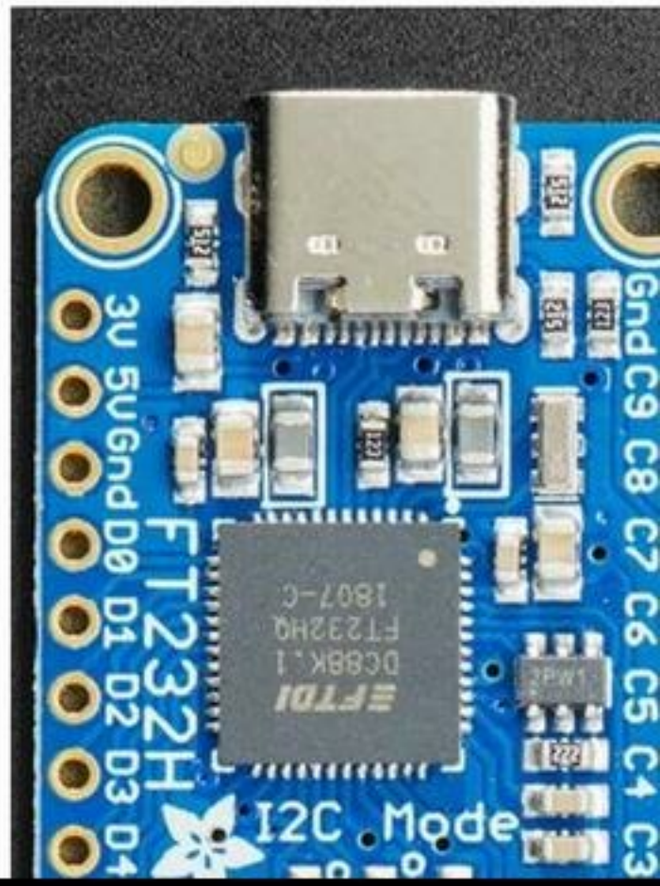
Adafruit FT232H

, variable voltage tools

Bus Pirate



Adafruit FT232



Multi protocol, variable voltage tools

Tigard

Bus Pirate

Adafruit FT232H

Software

Flashrom

OpenOCD

Hardware Hacking Village Defcon has two images.. A heavy and a light. Comes with everything

RBaseFind

Other Flash programmers

Circuit simulators

3. Some examples of hardware hacks

3. Some examples of hardware hacks

Wi-Fi Pineapple

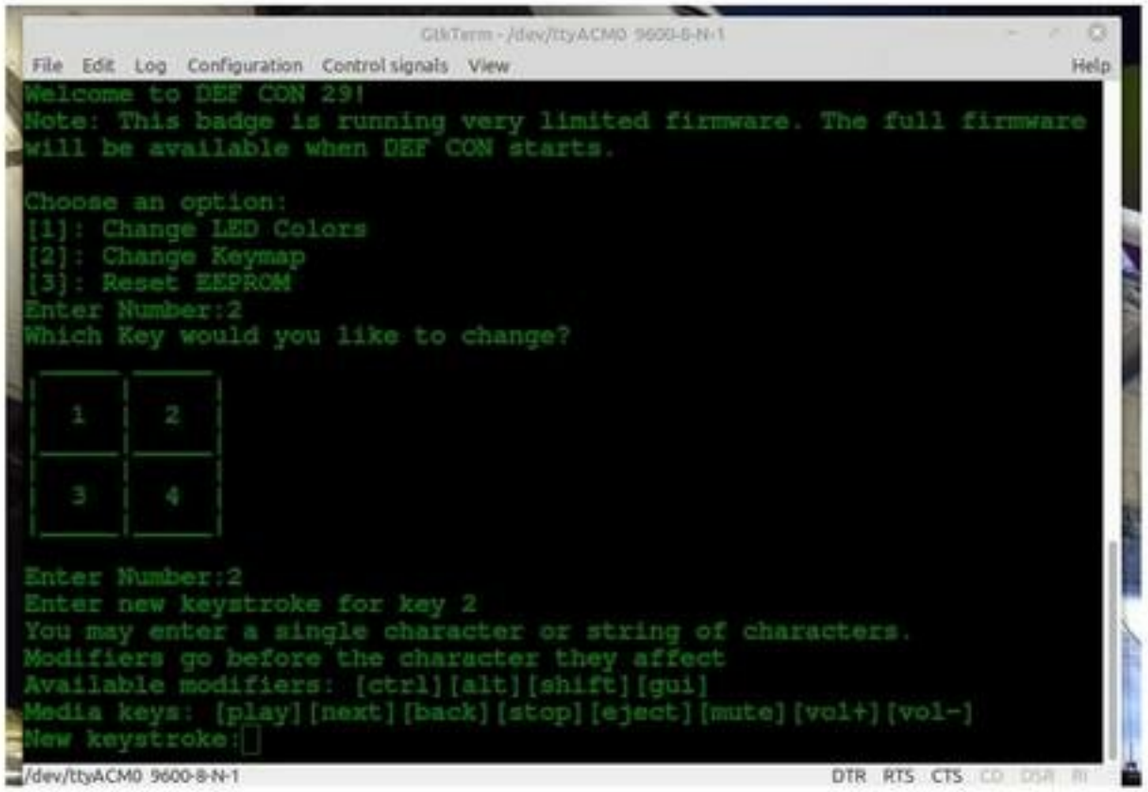
Rubber Duckies

Gas pump skimmers

Favorite old school router... WRT54G

Favorite old school router... WRT54G

Badges and blinkies

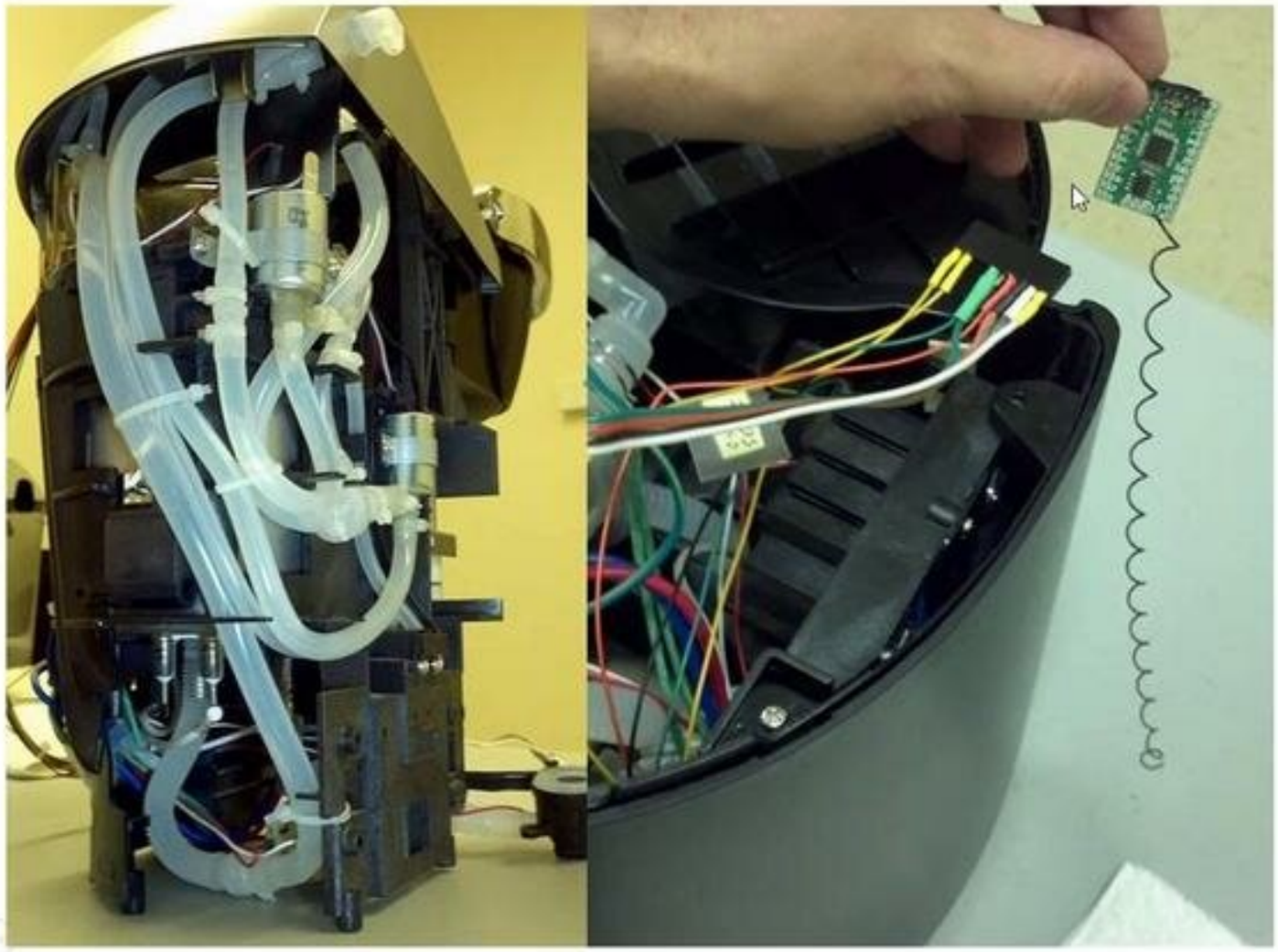


characters.
mute][vol+][vol-]
DTR RTS CTS CD DSR RI

The Dark Tangent Presents: DEF CON 29

29

Making your Keurig wireless



Make your own messages...

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Bunny from DCHHV
- Presentation template by SlidesCarnival

Articles that helped me

- https://www.riverloopsecurity.com/blog/2020/02/hw-101-spi/
- https://www.circuitbasics.com/basics-of-the-spi-communication-protocol
- https://site.ieee.org/ocs-cssig/?page_id=770

End of slide show, click to exit.

Bajando por esa extraña madriguera de conejo de hackeo de hardware conmigo.
Gracias por su presentación. Cualquier pregunta esta vez.