

Assembly Slides:



# IoT Cat Lamp

Presented by: Michael Raymond

The cutest mostly secure IoT lamp.

# About the Speaker

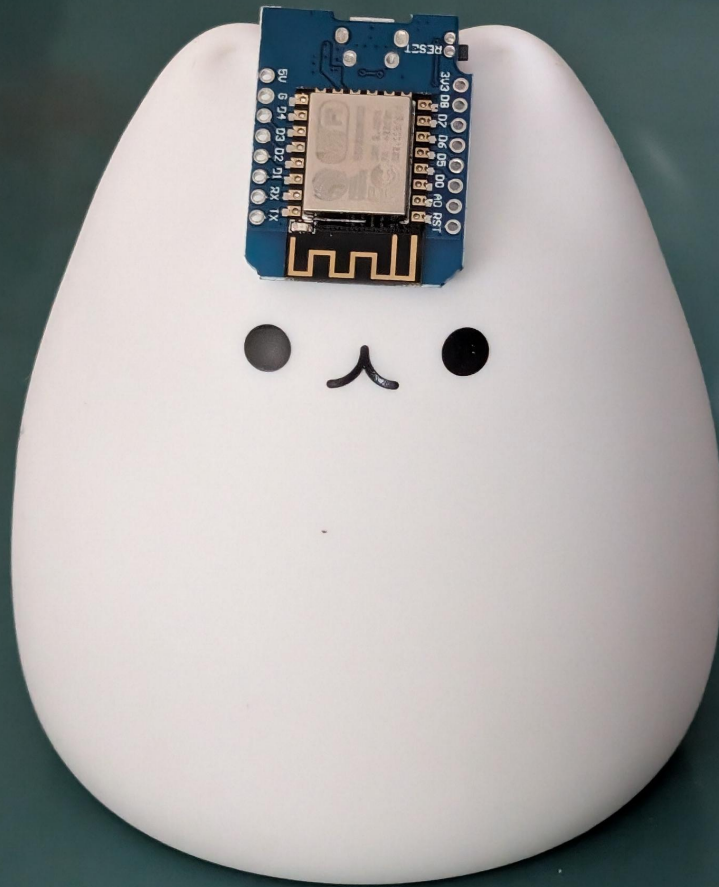
## Michael Raymond

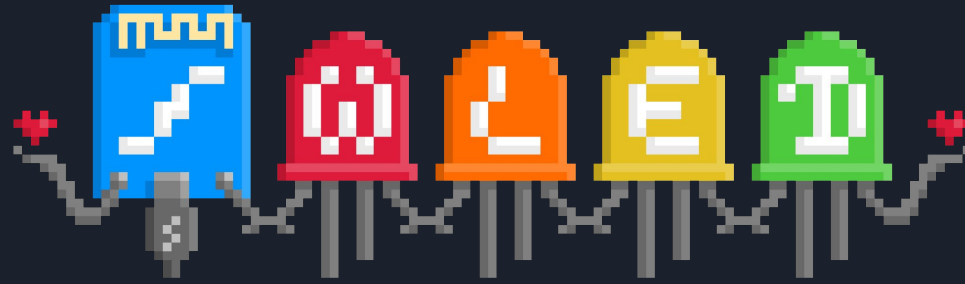
- Ethical Hacking on Hak5, Null Byte, and SecurityFWD
- vCISO
- Interests
  - Home Automation
  - Aerospace ADS-B
  - SDR Radio Hacking
- Mountaineer





- Learn how to solder
- Assemble the PCB
- Setup your WLED lamp
- Enjoy!





- **Open-Source LED Control**
- **User-Friendly Interface**
- **Integration Capabilities**
- **Dynamic Effects**
- **Community-Driven**



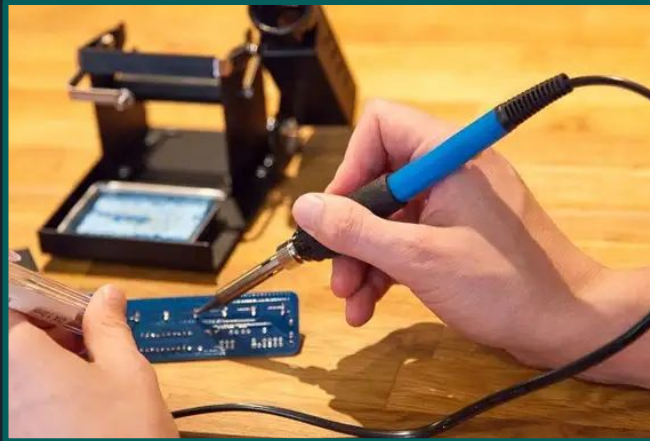
# Soldering Safety

- Never touch the soldering iron element; it can reach temperatures of 750°F.
- Don't breath in the fumes.
- Wash your hands after.



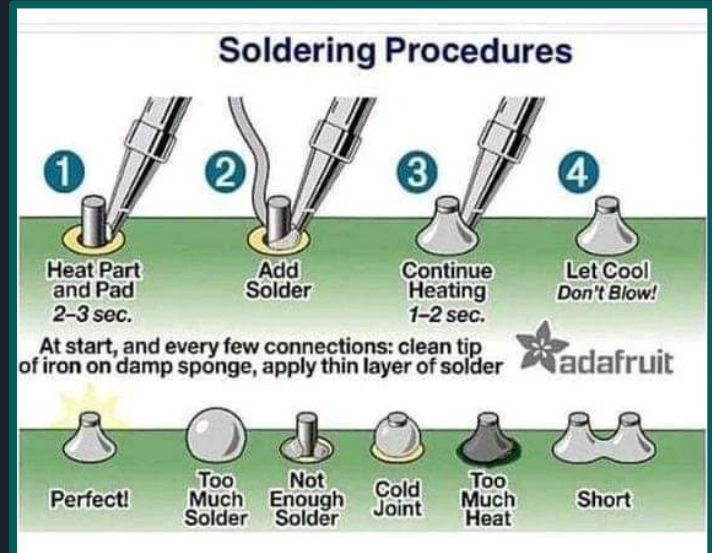
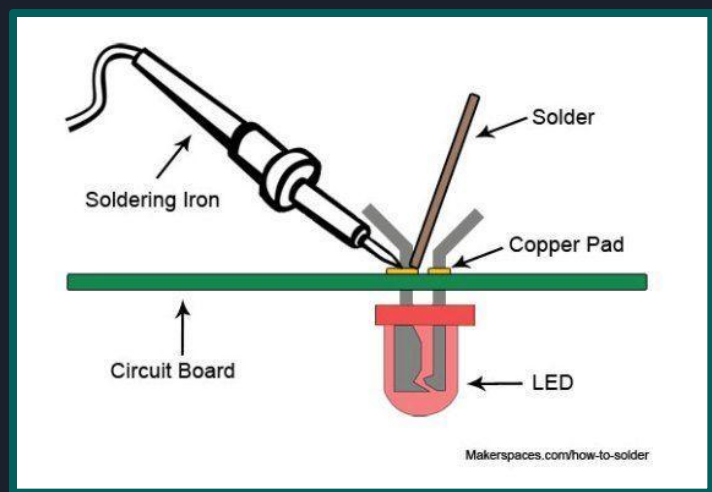
# Holding the Soldering Iron

- Your iron is incredibly hot, only hold the handle
- All of the metal parts in the front get hot: NOT just the tip



# Soldering Correctly

- Careful not to use too much solder
- Using too much solder will cause multiple pins to bridge
- If you do end up using too much, ask for help
- Too little solder will cause it to not make an electrical connection





# Cleaning your iron

- Keep the cleaning sponge wet while using the soldering iron
- If the soldering joints look messy or the soldering tip looks to be dirty, clean it on the wet sponge





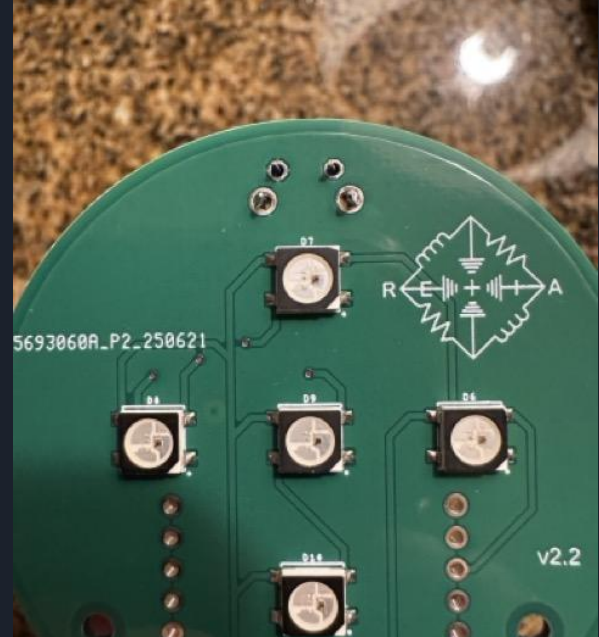
# Solder D1 Mini to the PCB





# Solder the Button to the PCB

Button is placed opposite the LEDs





# Insert Button Cover

Slide the button cover into place, and ensure both legs sit flush and flat





# Assemble the Base

Slot PCB into place and screw tight

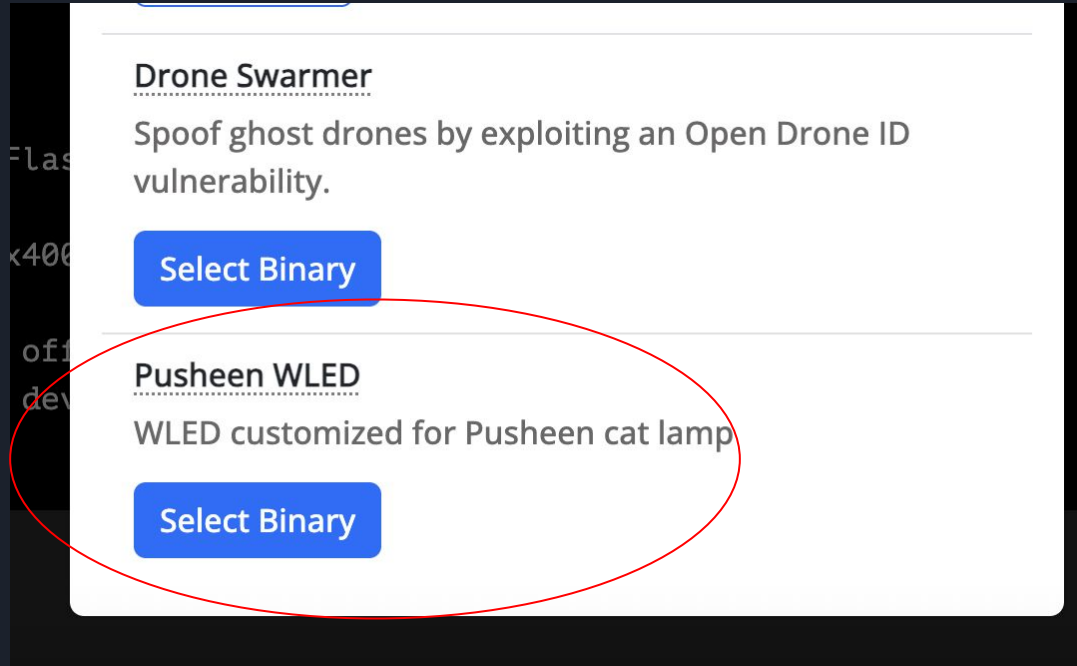




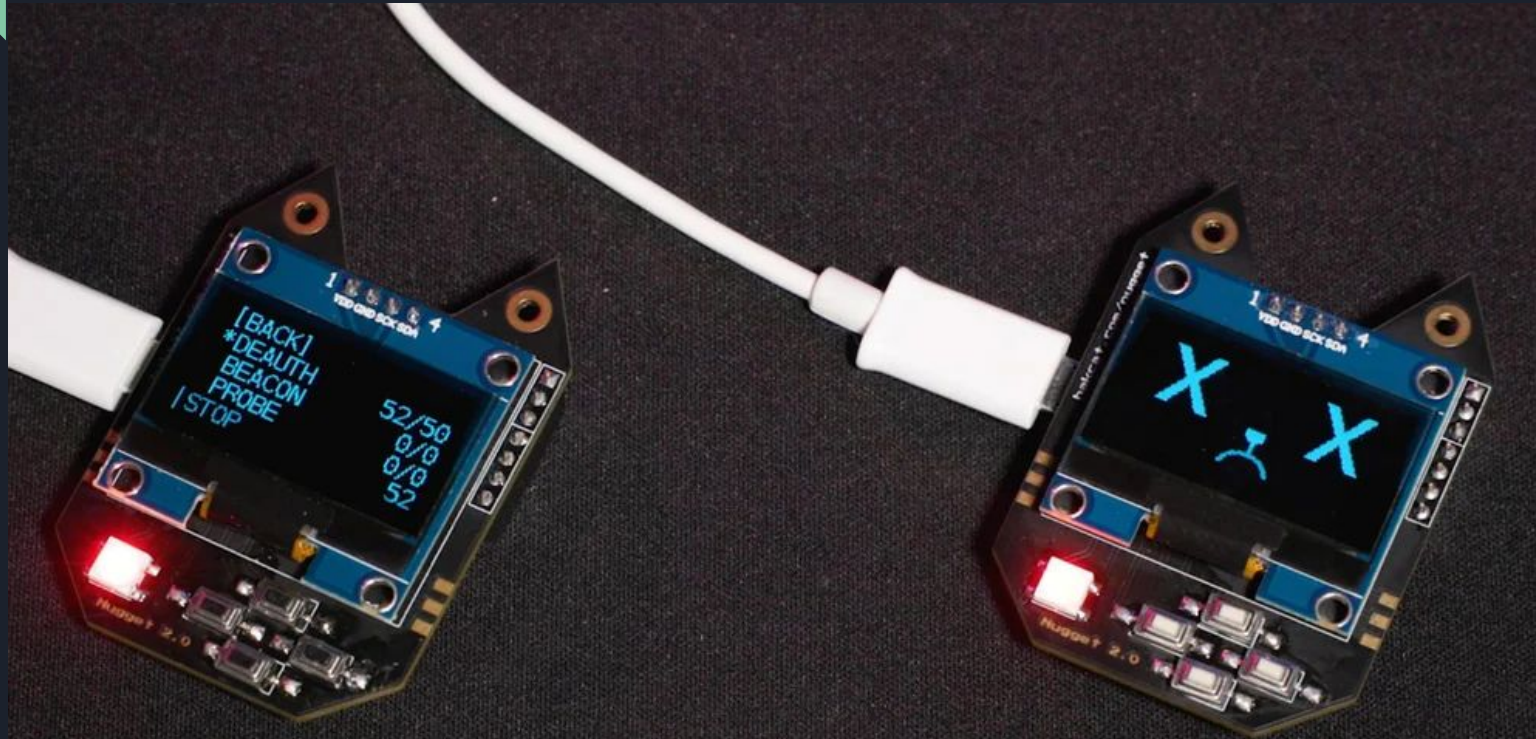
# Install WLED

Select "Pusheen WLED" from the drop down menu

<https://nugget.dev>



# Wi-Fi Deauthentication Attacks





# Pusheen Guardian

- Looks for Deauthentication & Disassociation
- Changes Color when over 5 per second

## Pusheen Guardian Wi-Fi Jamming Detector

Wi-Fi Deauth & Disassociation Detector for the ESP8266  
Pusheen

Select Binary



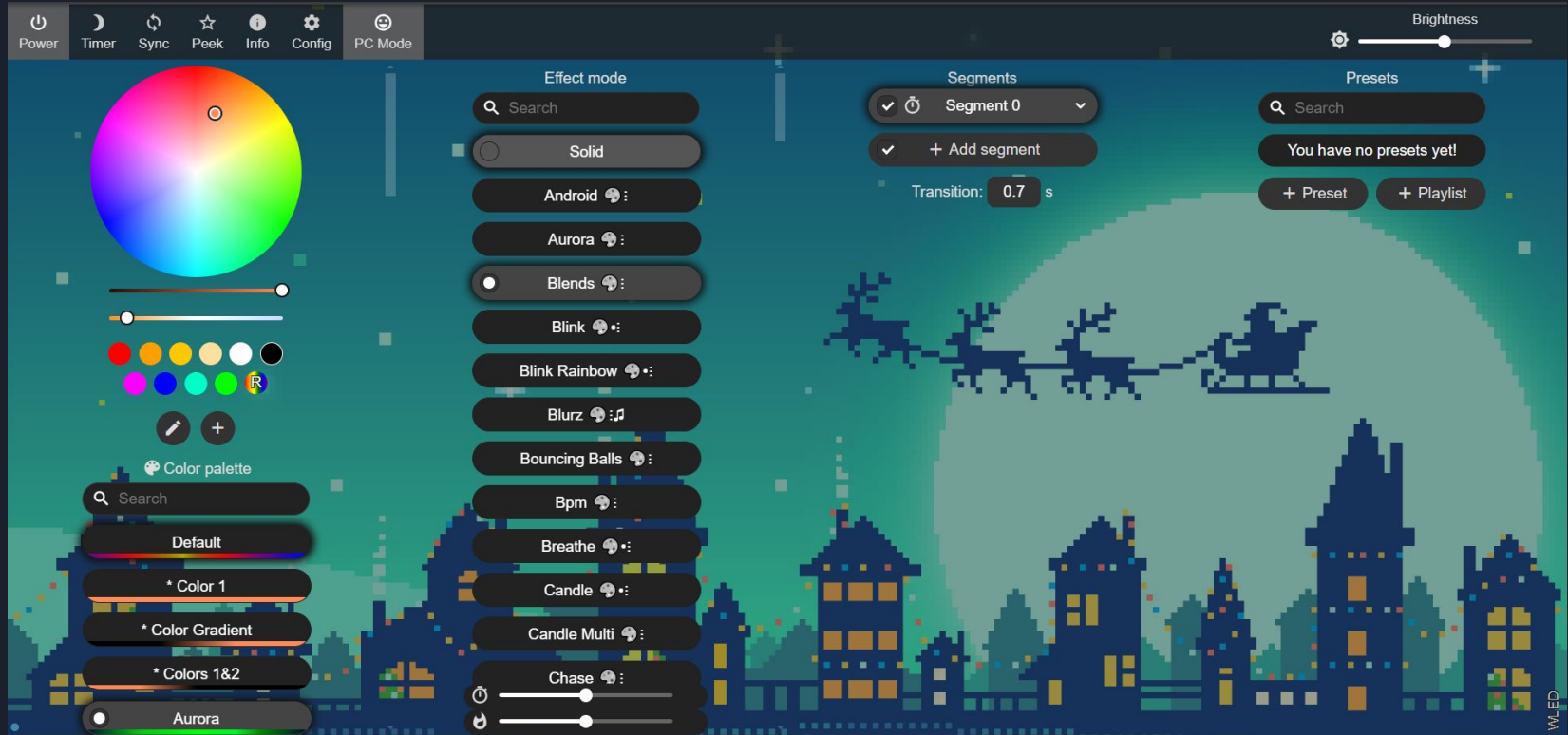
# It's ALIVE!!!!

Use any wifi-equipped device to connect to the newly created network "Cat Lamp"

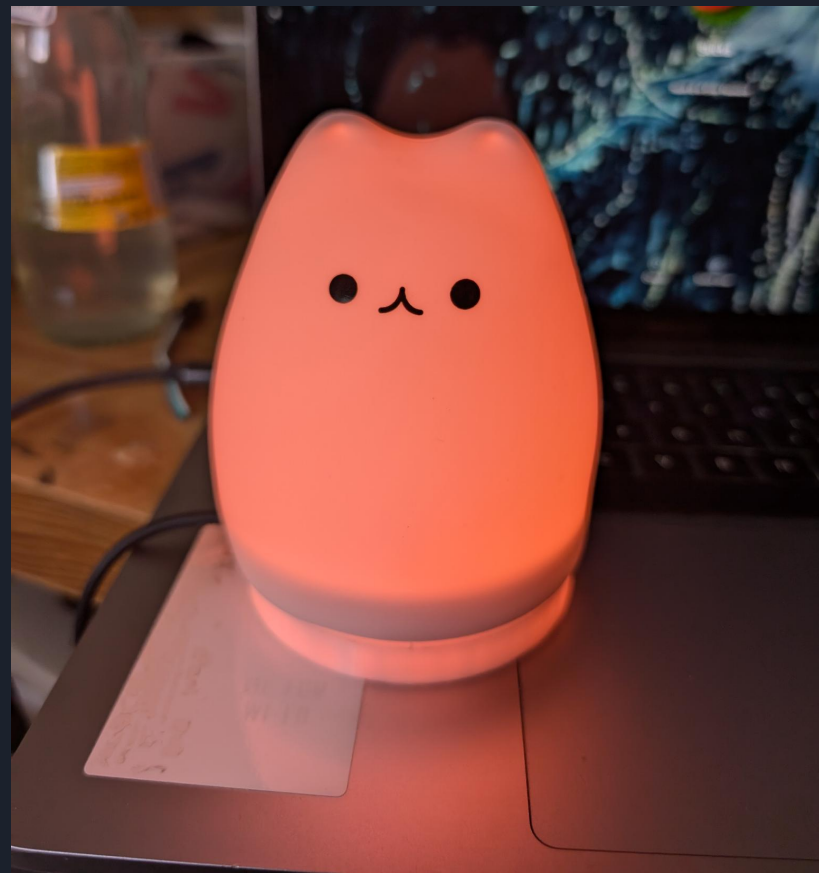
If the sign in page does not pop up then in your Browser go to 4.3.2.1



# Basic Animations



# Attach the Purrsheen cover

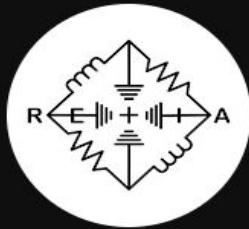




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