Connecting to Your Wombat
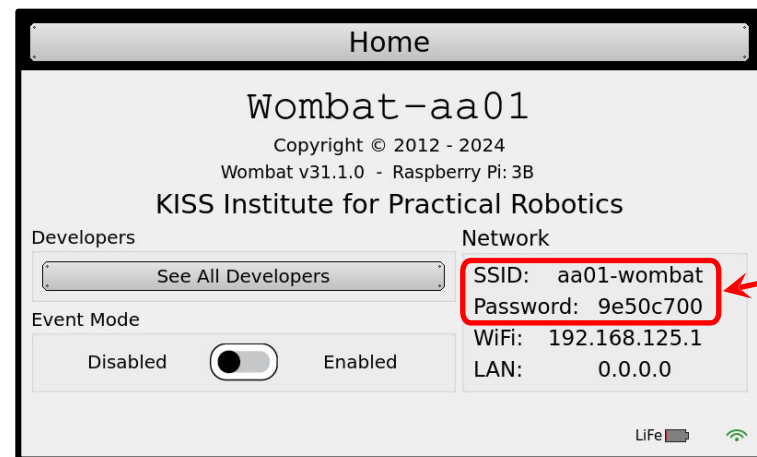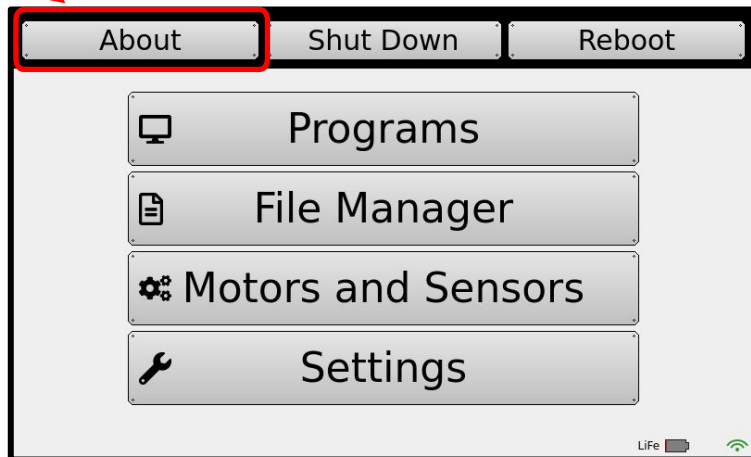
Slide	Topic

# Connect the Wombat to Your Computer Smartphone or Tablet at School (Wi-Fi)

1. Turn on the Wombat with the **black switch on the side**

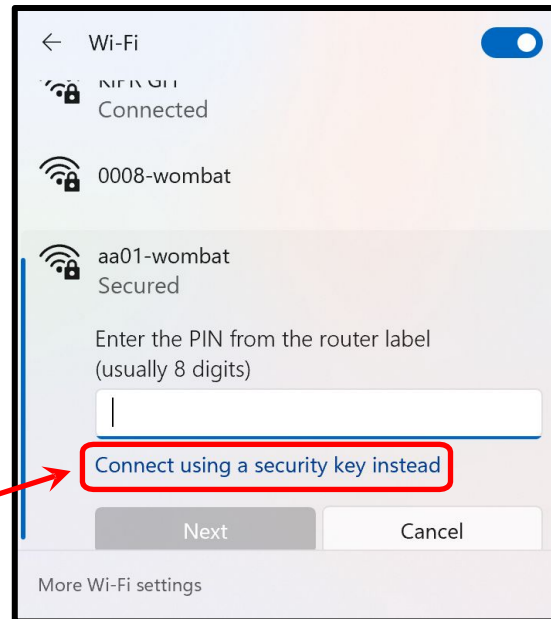2. Select *"About"*

3. Note the SSID and Password

Connect the Wombat to Your Computer Smartphone or Tablet at School (Wi-Fi)

1. Find your Wombat Wi-Fi signal in your Wi-Fi settings
2. If you see "Enter the PIN from the router label", click "Connect using a security key instead"
3. Enter the password from the About page (previous slide)
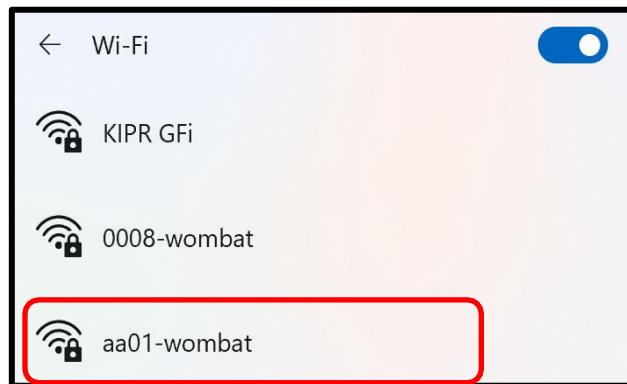
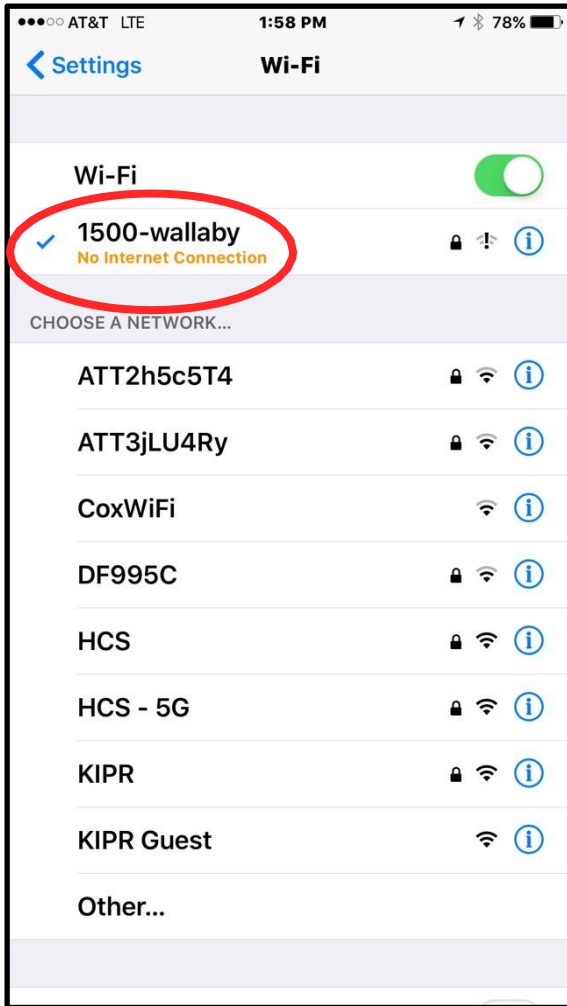# Connection to Controller

When you are connected to your Wombat, your device may give various errors; "*no internet connection*" or "*connected with limited*"

This is normal. Proceed with opening a browser and connecting to the KISS IDE.

Switching Wombat to Client Mode

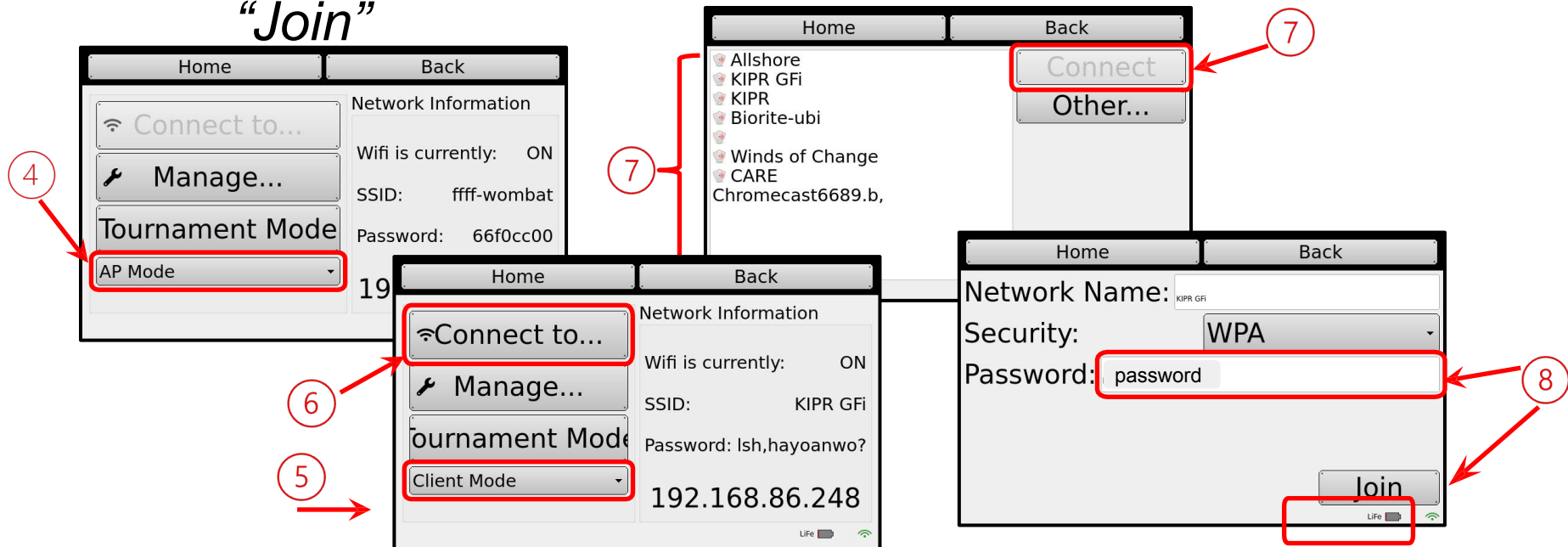For more advanced users, you can put your Wombat in client mode:

1. Select *"Settings"*
2. Select *"Advanced"*
3. Select *"Network"*
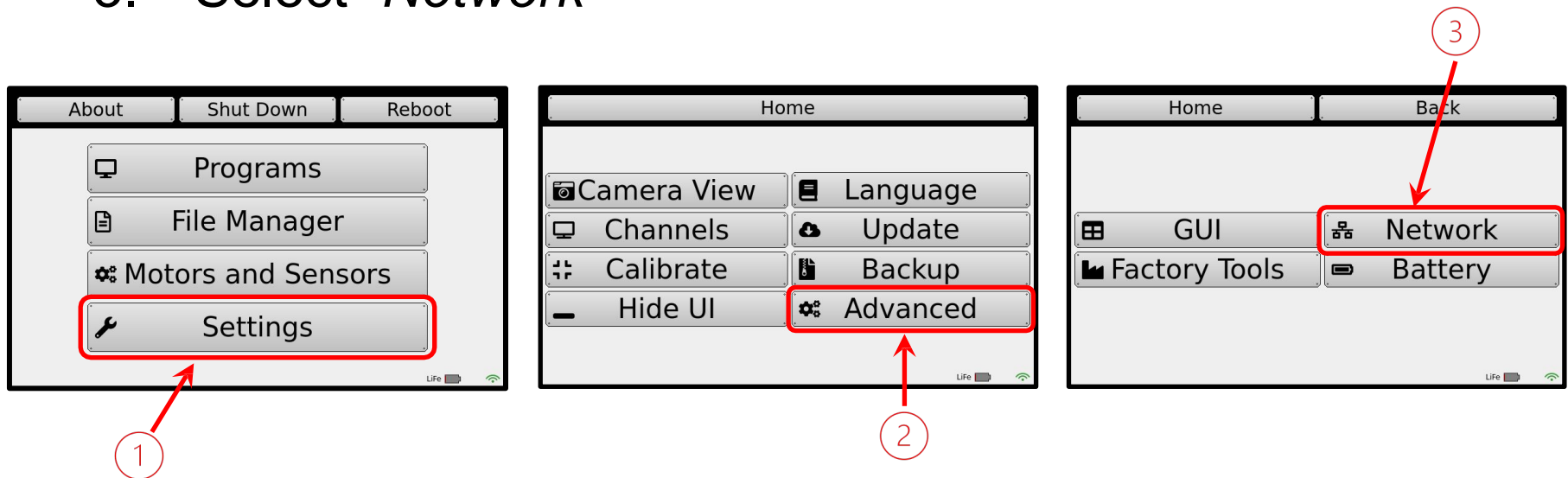
Switching Wombat to Client Mode

4. Select drop down box that says *"AP Mode"*
5. Change selection to *"Client Mode"*
6. Select *"Connect to…"*
7. Select desired network, then select *"Connect"*
8. Enter password for given network, then select *"Join"*

1. Launch a web browser such as Chrome or Firefox (Internet Explorer **will not work**).
2. Copy this IP address into your browser's address bar followed by ":" and port number 8888; e.g.,

**192.168.125.1:8888**

IP address   Port #

3. The user interface for the package will now come up in your browser.
4. You may use a computer, tablet or even a smart phone through Wi-Fi.

    a. Optionally you may use an ethernet cable (instead of Wi-Fi).

Connecting over Ethernet with a Device with an Ethernet port or a Chromebook with a USB port and Dongle

1. **Connect your device that has an Ethernet port to the Wombat with an ethernet cable**
2. **If you have no Ethernet port you need a dongle to convert USB to Ethernet and an Ethernet cable (refer to next slide)**
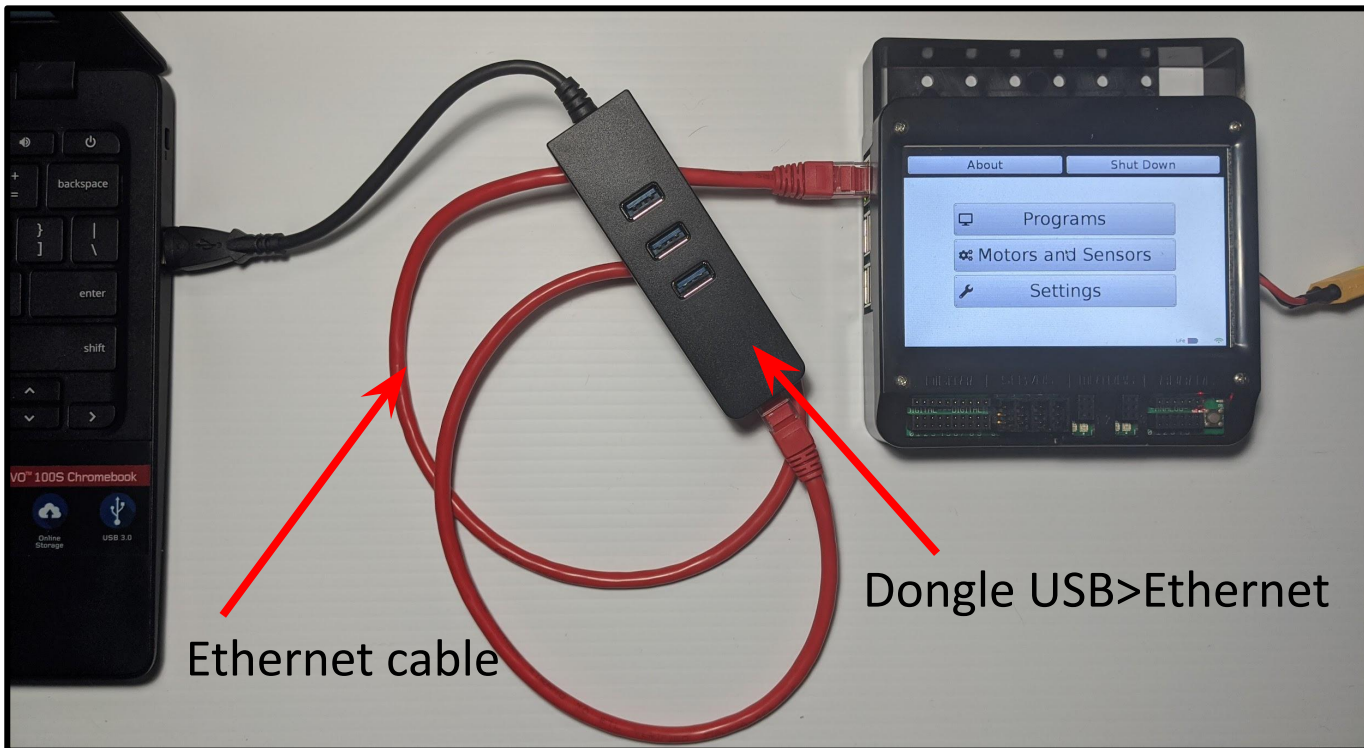

Ethernet port　　　**USB Ports**
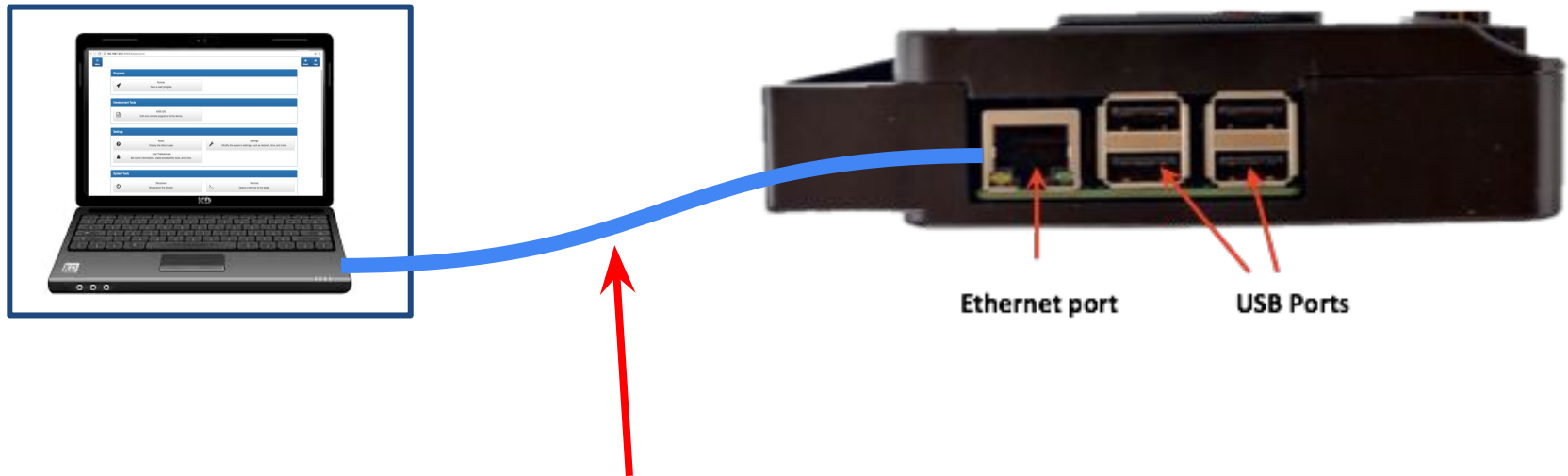
Ethernet cable

KISS INSTITUTE FOR PRACTICAL ROBOTICS

Botball®

Resource 8.2

1. If your device does not have an ethernet cable you will need a dongle that converts Ethernet to USB (make sure you get one compatible with Windows, OS or Chrome depending on the device you are using.
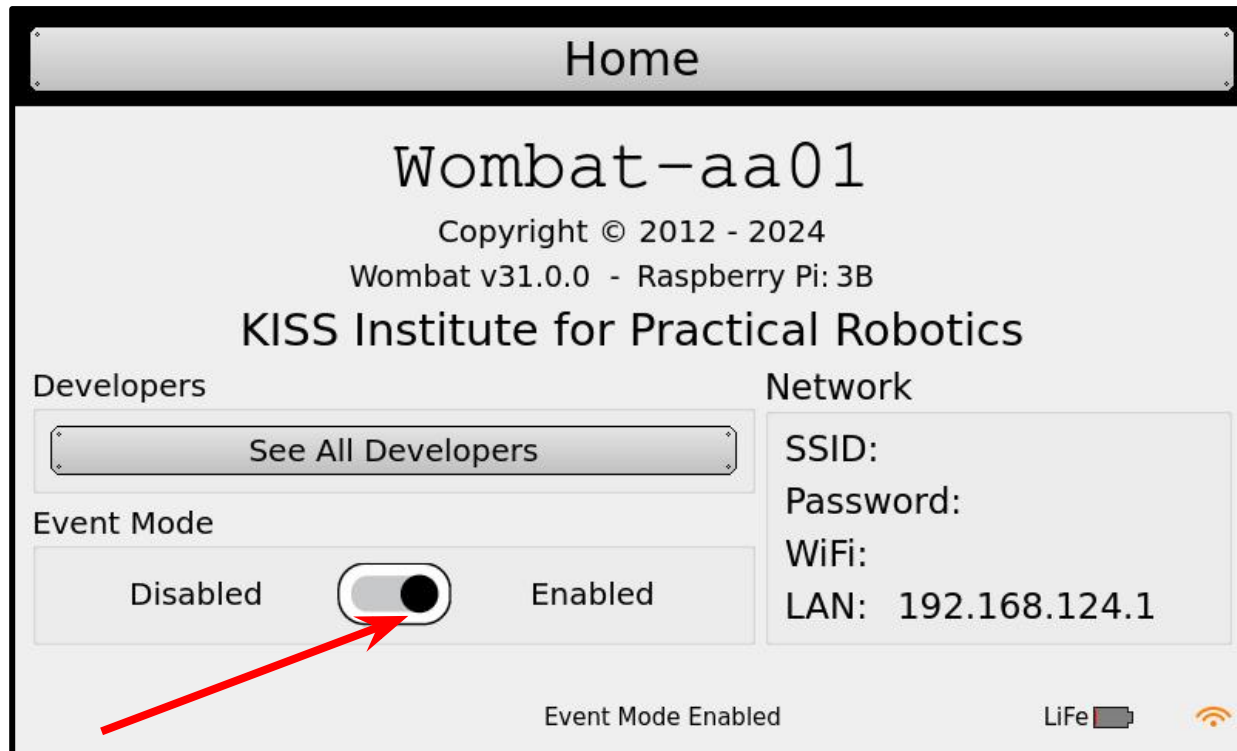

Dongle USB>Ethernet

Ethernet cable

1. **Make sure you have everything plugged into your wombat (Ethernet or Ethernet + Dongle)**
2. **This will allow only one person at a time to program the robot but it will ensure that you can connect if there is a lot of WI-FI Interference**
3. **FIRST you must use the UI on your robot by going to the ABOUT screen select-Toggle to Event Mode Enabled**

HINT if the LAN simply has 0.0.0.0 then go back to HOME and select ABOUT again

1.
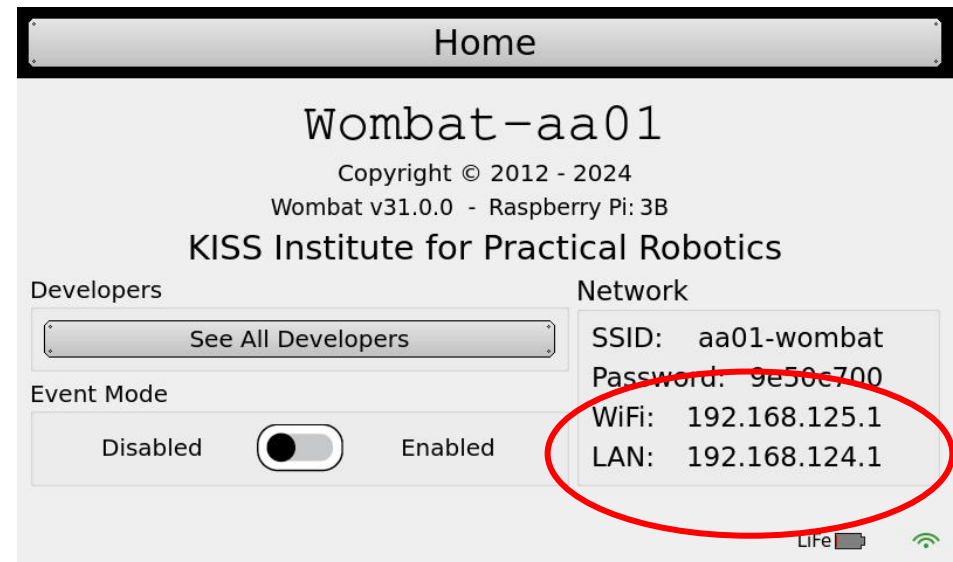Once Plugged into the wombat, Event Mode ENABLED and you see the LAN address in the lower right corner open Chrome or similar browser and type in
the LAN number (It is the same number for all robots using an Ethernet cable

192.168.124.1:8888

IP address   Port #

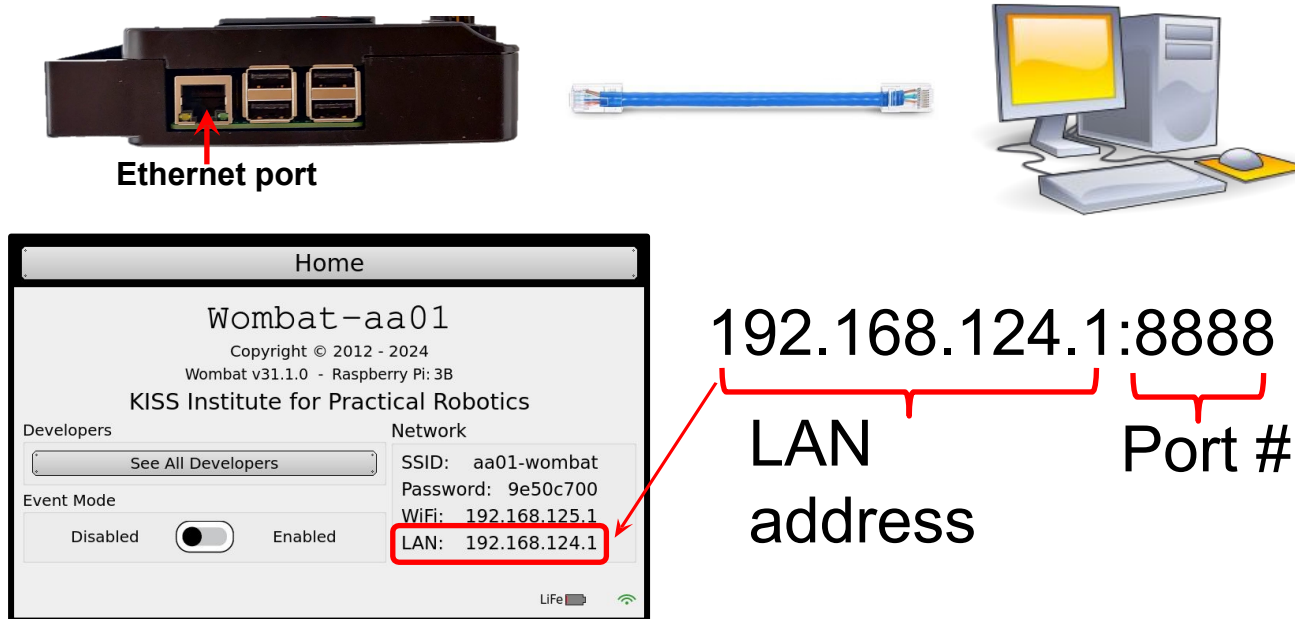**NOTICE that the IP address for using the Ethernet Cable connection is only one number different from the wifi IP**

Home

Wombat-aa01

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Wombat v31.0.0 - Raspberry Pi: 3B

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Developers
See All Developers

Network
SSID: aa01-wombat
Password: 9e50e700
WiFi: 192.168.125.1
LAN: 192.168.124.1

Event Mode
Disabled   Enabled

LiFe

- If you have trouble connecting your Wombat via Wi-fi, try ethernet:

1. Plug ethernet cord from Wombat to your device

Ethernet port

Home

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Developers
See All Developers

Event Mode
Disabled ⬤ Enabled

Network
SSID: aa01-wombat
Password: 9e50c700
WiFi: 192.168.125.1
LAN: 192.168.124.1
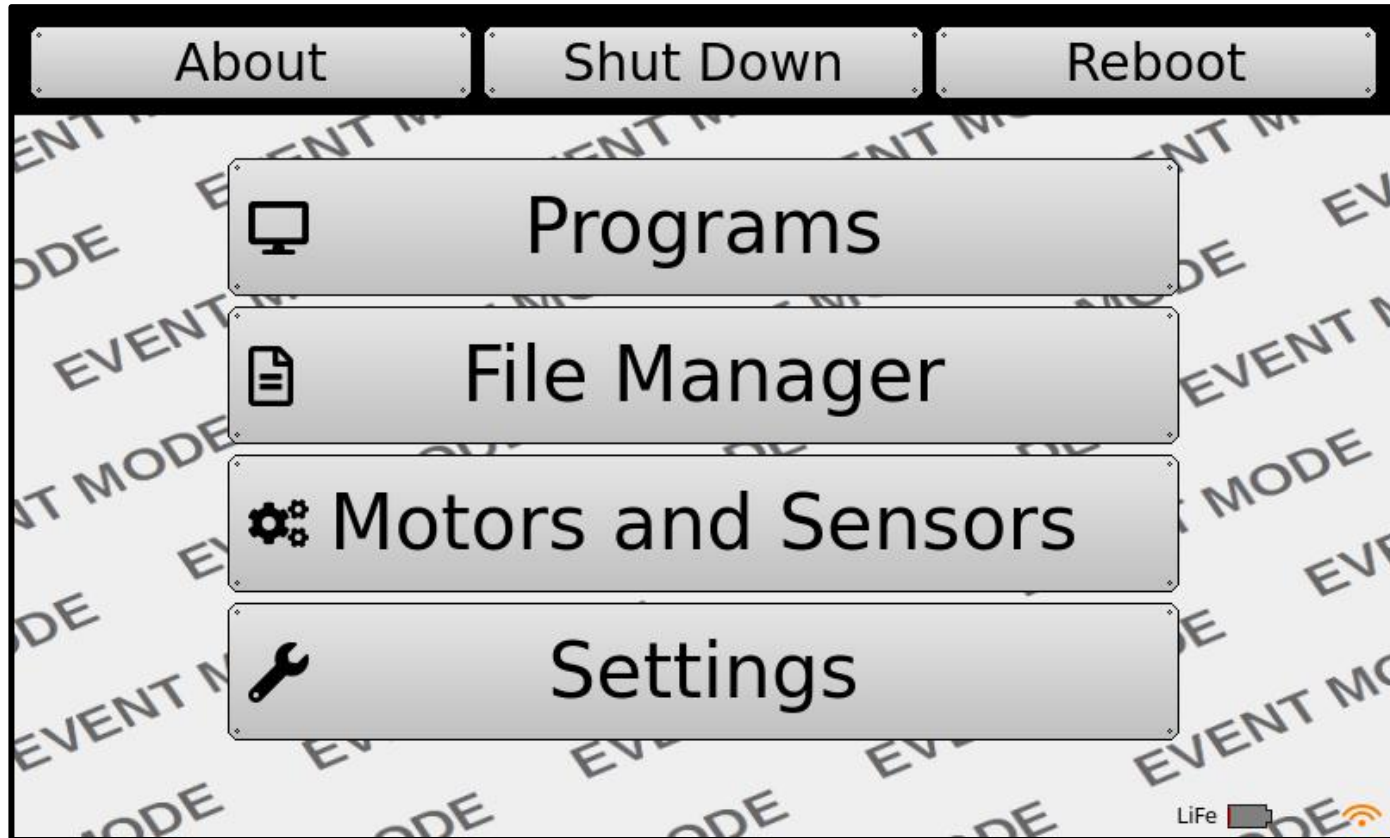
LiFe 📶

192.168.124.1:8888

LAN address

Port #

2. Copy this LAN address into your browser's address bar followed by ":" and port number 8888

Connecting to Your Wombat Using a Ethernet Cable

You will also know your are in event mode because when you go back to the HOME screen the background indicates Event Mode

Accessing KIPR Software Suite