## Name: Achieve connectivity between pc and esp8266 chip

#### Goals:

The goal is for the team to be able to wire the correct pins to power the chip and connect i/o with pc.

### Personnel:

primary - Luke

### Technologies, Tools, and Resources used:

- https://github.com/geekscape/nodemcu\_esp8266/tree/master/worksh op 1
- Vcc 3.3v serial USB interface
- Esptool: <a href="https://github.com/themadinventor/esptool">https://github.com/themadinventor/esptool</a>
- Pyool: http://pyserial.sourceforge.net/
- Esplorer: http://esp8266.ru/esplorer

#### Tasks undertaken:

• Confirmed the model of ESP8266.



# Figure 1

• Identified pin layout esp8266, and where to plug into ftdi (from figure 2)

### Figure 2

- Connected ESP8266 to breadboard
- Install FTDI serial usb drivers
- Set FTDI serial/usb to 3.3 Volts (figure 3)



# Figure 3

- Connected to FTDI serial/usb (figure 4)
- The jumper should be on the middle and 3.3volt pin to make the vcc line 3.3volt (verified with a multimeter).

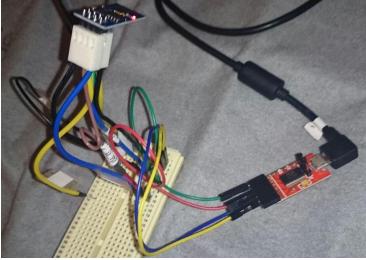


Figure 4

## What we found out:

- How to set the serial usb to 3.3v
- The ESP8266 cannot be used on breadboard due to its size, so it must be wired.

# Open issues/risks:

ullet Could not get a different version of the FTDI (232) chip to recognize in windows 8.1

## Recommendations:

- Try the ftdi232 in other versions of windows, or further research usage method.
- Devise a way to more comfortably connect an esp8266\_01 to a breadboard.