

Scribbler Windows 7 Setup

Step 1: Download Calico

You can open a browser (such as Internet Explorer or Firefox or Chrome; the step-by-step picture walkthrough will use Firefox) and follow the instructions for downloading Calico for Windows at http://calicoproject.org/Calico_Download#Windows or you can follow a step-by-step guide below:

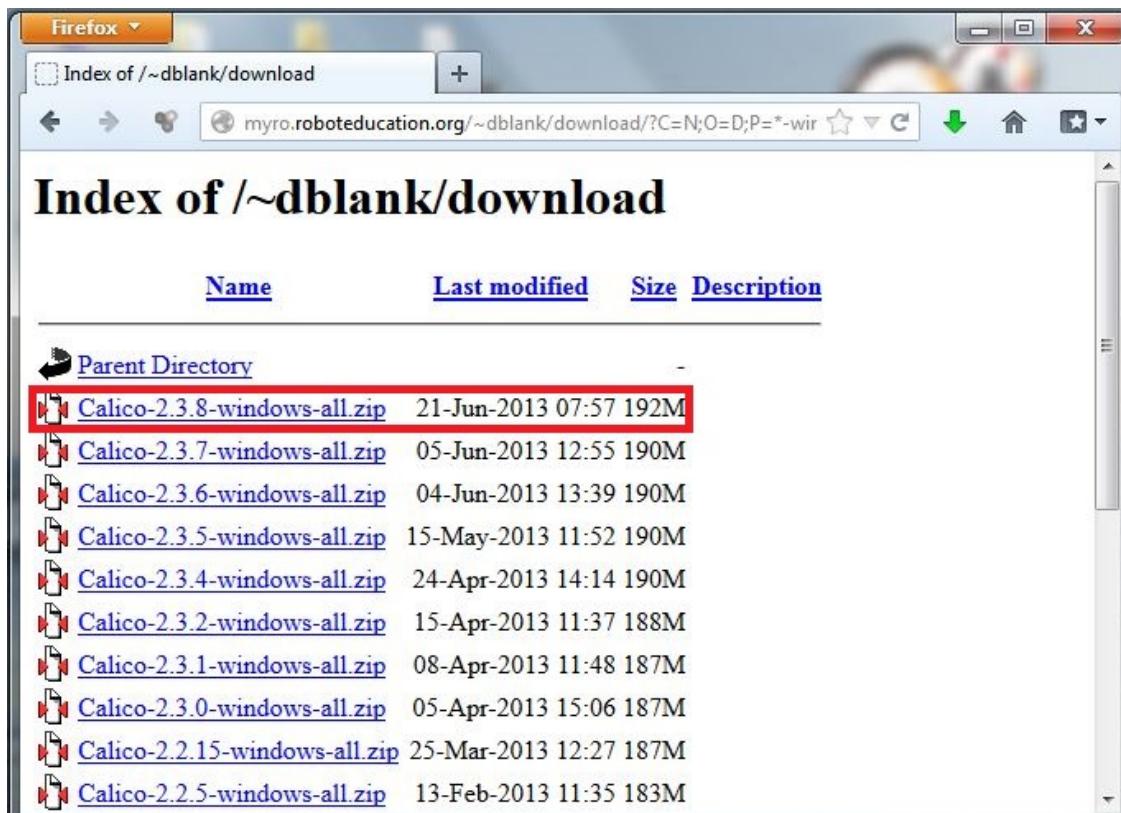
Picture Walkthrough:

Install / Extracting Calico Software

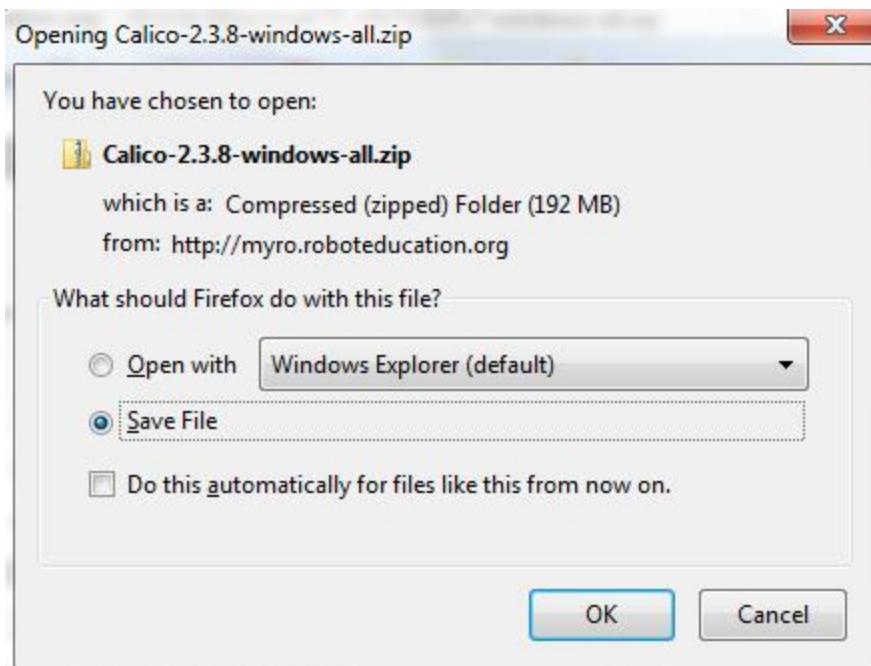
1. Open a browser (such as firefox) and go to the following link to download the newest version of Calico for Windows

http://myro.roboteducation.org/~dblank/download/?C=N;O=D;P=*-windows-all.zip

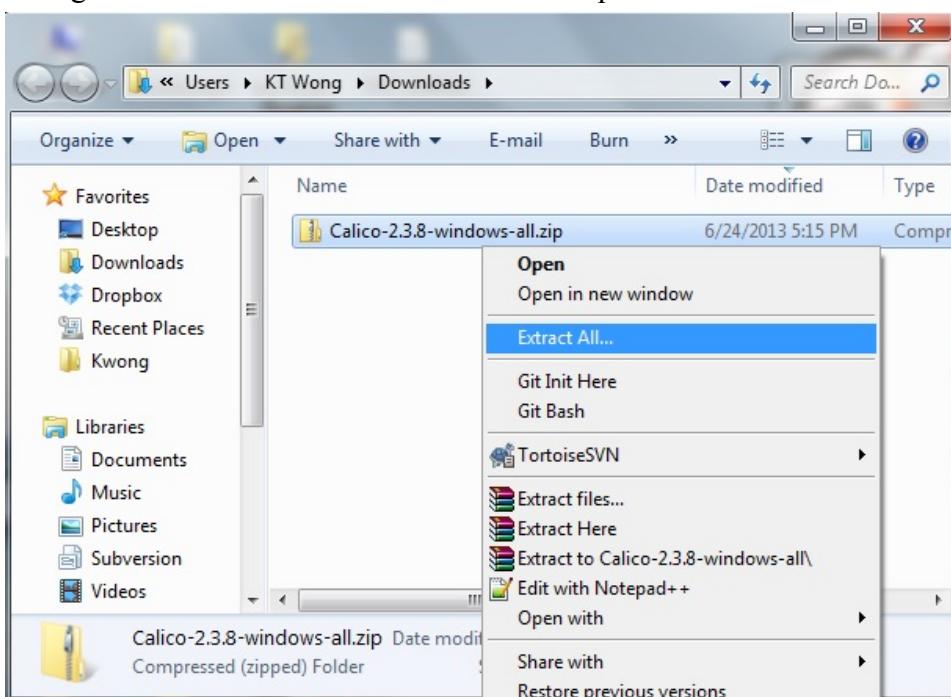
2. Download the latest version of Calico by left-clicking the most-recent version



3. A pop-up should come up, and you should select the bullet “Save File”

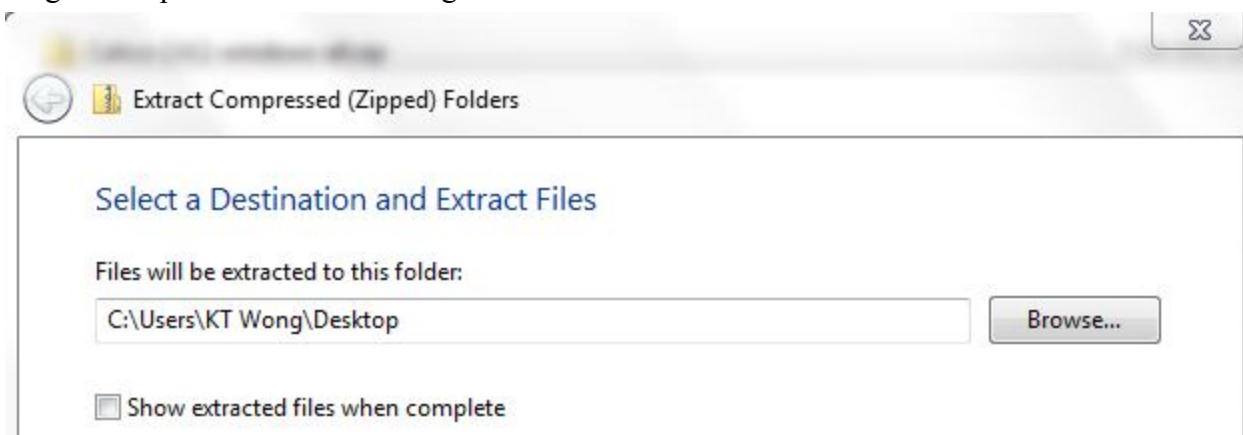


4. Left-click “OK”
5. When it finishes downloading, open the folder by left-clicking the download arrow, right-clicking the .zip file, and left-clicking the “Open Containing Folder” button
(if you cannot find the download arrow, right-click the top bar of the firefox browser and make sure “Navigation Toolbar” is checked)
6. Right-click the Calico-2.3.8-windows-all.zip file and left-click Extract All

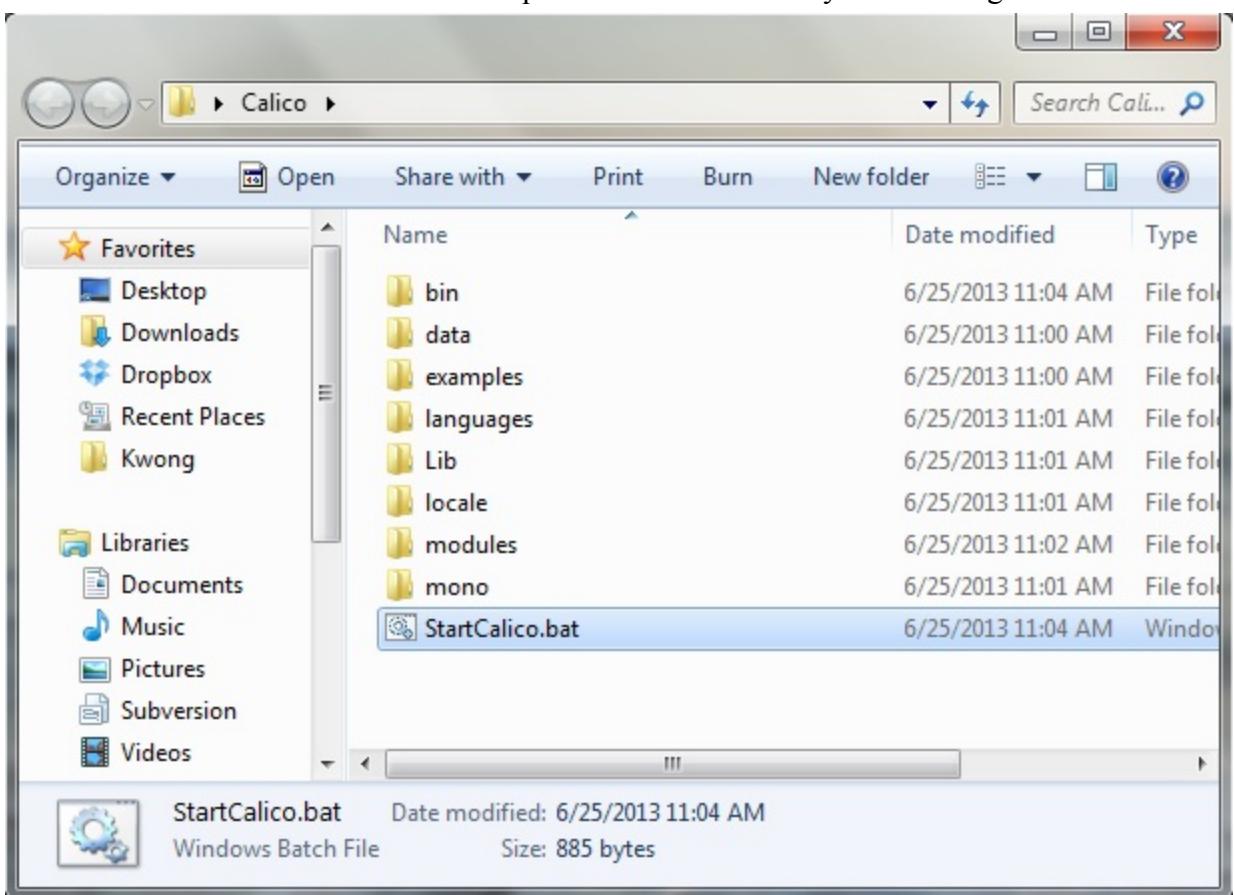


7. Choose where to extract calico to, such as your desktop, by left-clicking Browse and then

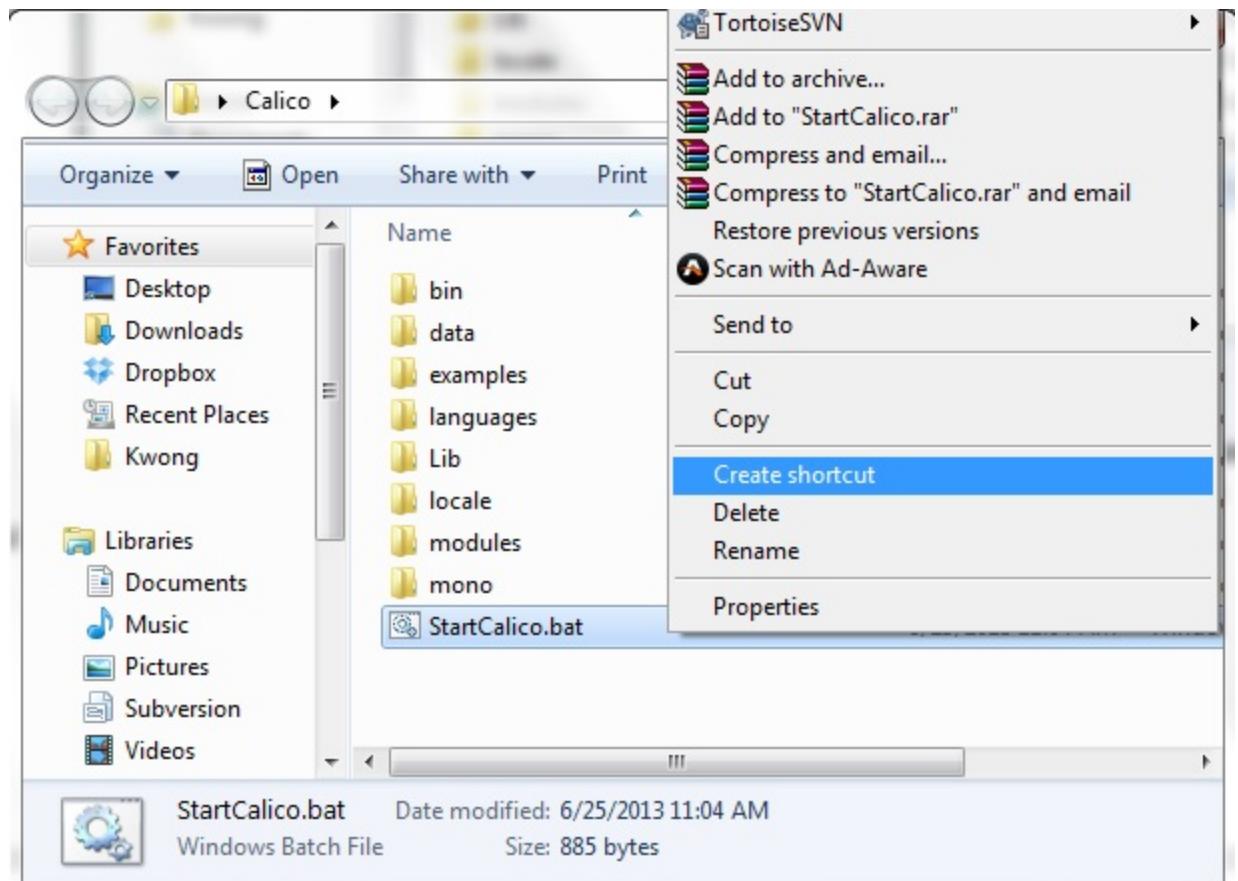
left-clicking Desktop and then left-clicking OK



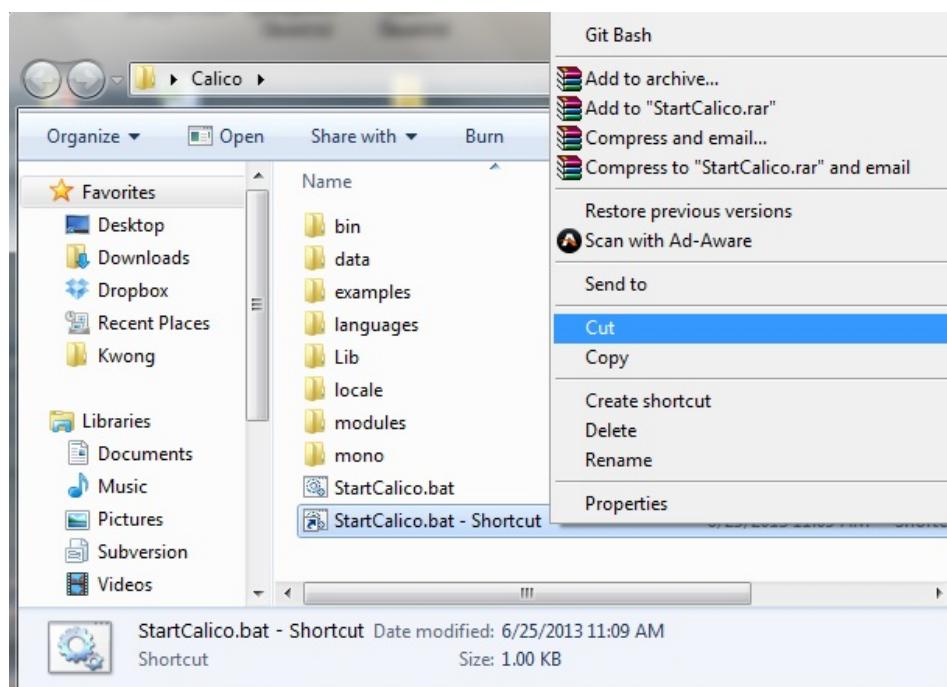
8. Now that you have selected the destination, left-click Extract and wait for it to finish
9. Go to the extraction destination and open the Calico Folder by left-clicking it twice



10. You can now create a shortcut for opening Calico by right-clicking the StartCalico.bat and left-clicking Create shortcut

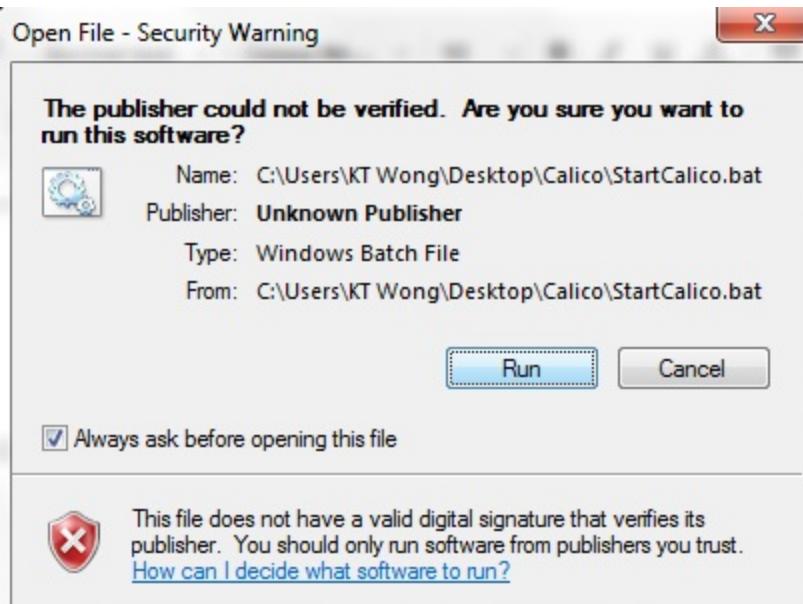


11. You can move the shortcut to the Desktop by right-clicking the Shortcut and left-clicking Cut



12. Then go to the Desktop and right-click an open space and select Paste
13. You can now open Calico from the desktop by double left-clicking on StartCalico.bat - Shortcut

Note: Since it is a bat file, you may get a security warning - but you can simply click Run



You can now close all other windows (including the newly opened Calico) before the next step.

NOTE: When using Calico, sometimes connection errors can be fixed by closing Calico and re-opening it.

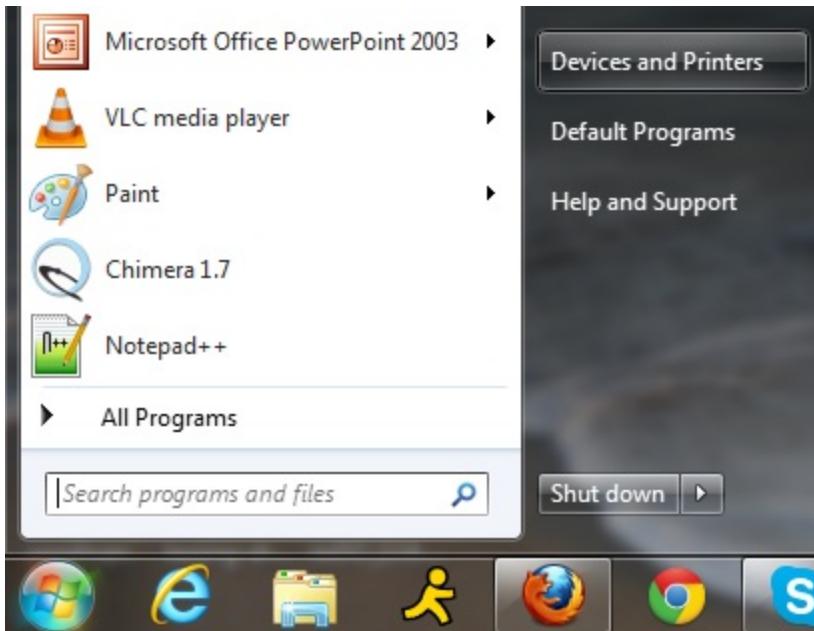
Step 2: Scribbler Windows Bluetooth Setup

Calico has a video available for how to set-up the bluetooth connection:

<http://www.youtube.com/watch?v=AXQcokKrIzw>

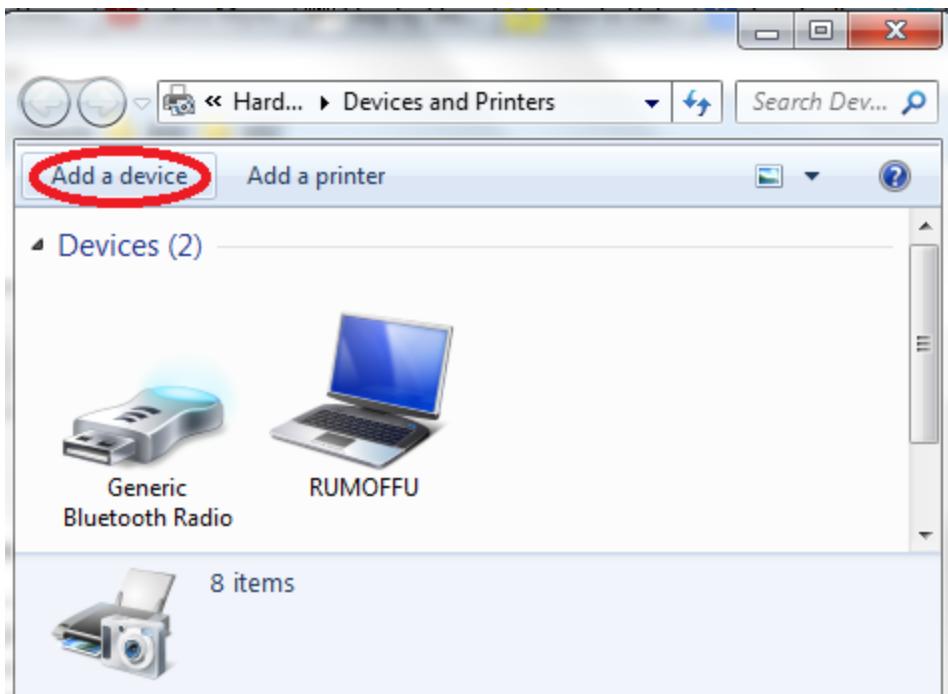
Picture Walkthrough

1. If you have a USB Bluetooth Adapter Dongle, then you can plug it in now and let it install the needed drivers and software. The recommended adapter for the Scribbler robot is the **Azio BTD-V201 USB Micro Bluetooth Adapter, Class 1, V2.1 + EDR**.
2. Go to your control panel by left-clicking the Start button and then left-clicking the control panel button. From the control panel, left-click the Devices and Printers button. If you don't know how to get to the control panel menu in **Windows 8**, simply Google it (or click [here](#)). The instructions are the same once you get to the control panel.

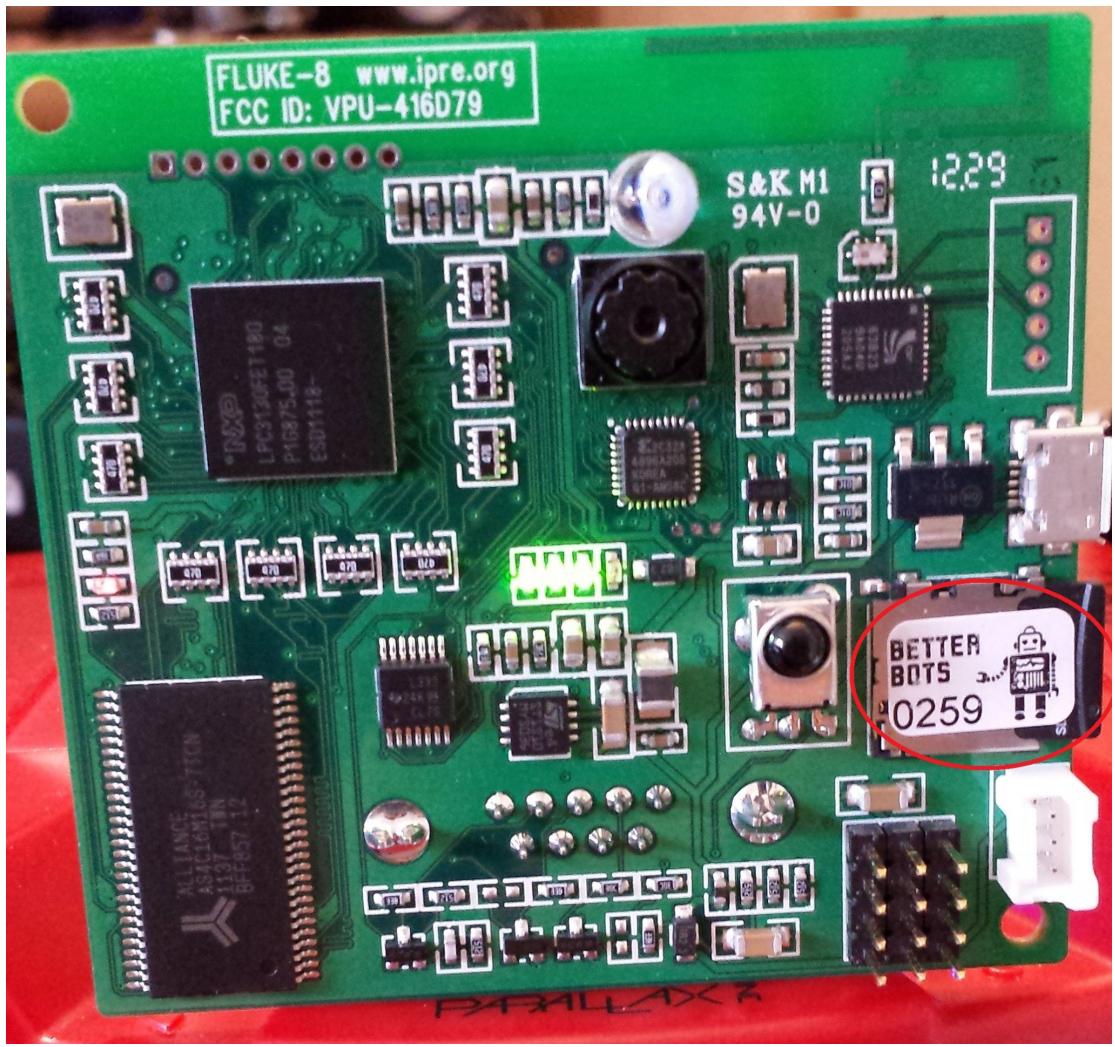


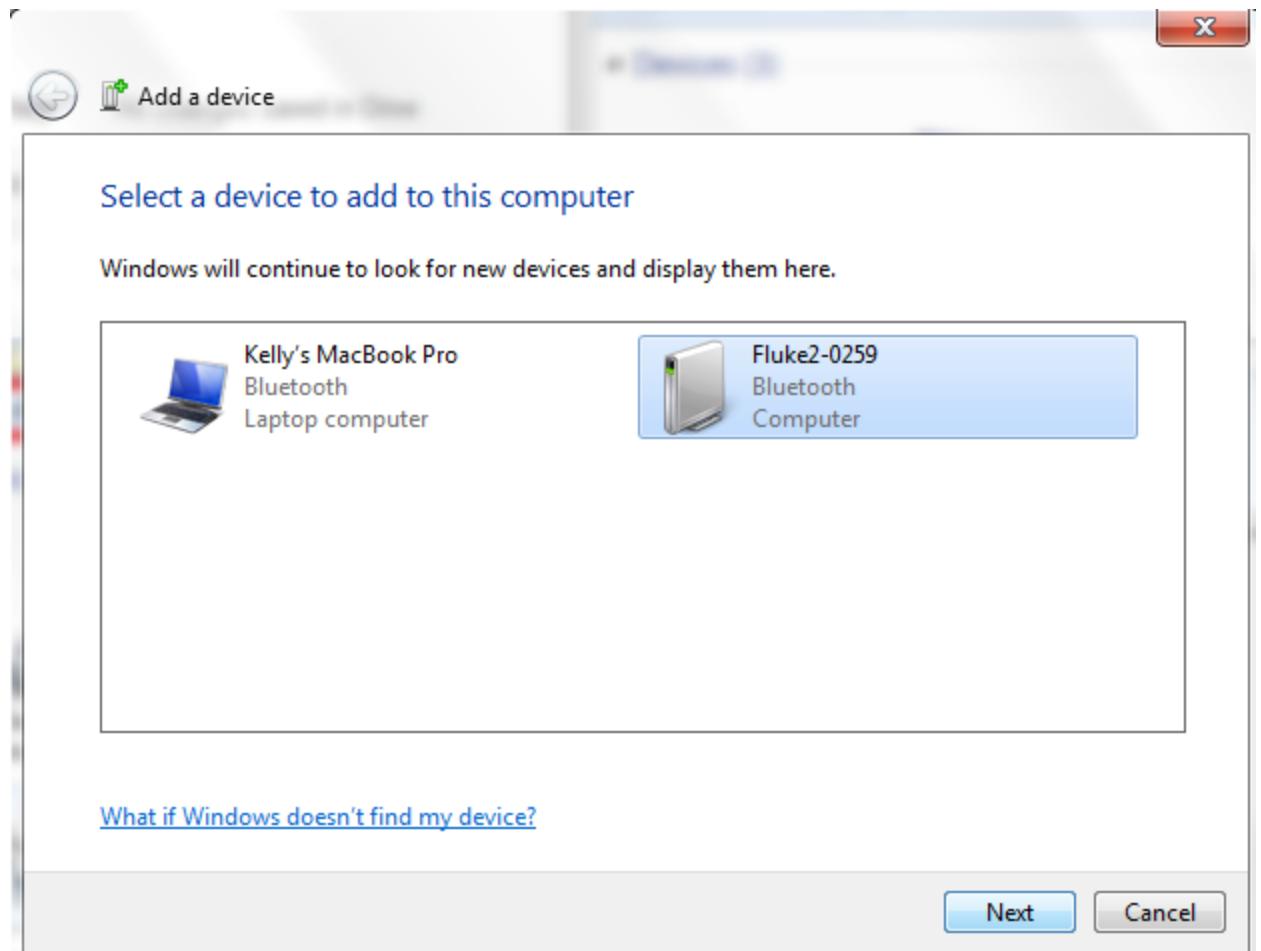
2. For the next step, we need the Scribbler to be on and the Fluke II plugged into it in order to connect to the Scribbler robot. So make sure the Scribbler has 6 good AA batteries in it and that the Fluke II is plugged into it. Then, on the Scribbler near the Fluke II, flip the black switch to the minus “-” sign to turn on the Scribbler. A blue light should turn on and the Scribbler will beep as it turns on.

3. Back on the computer, left-click Add a device

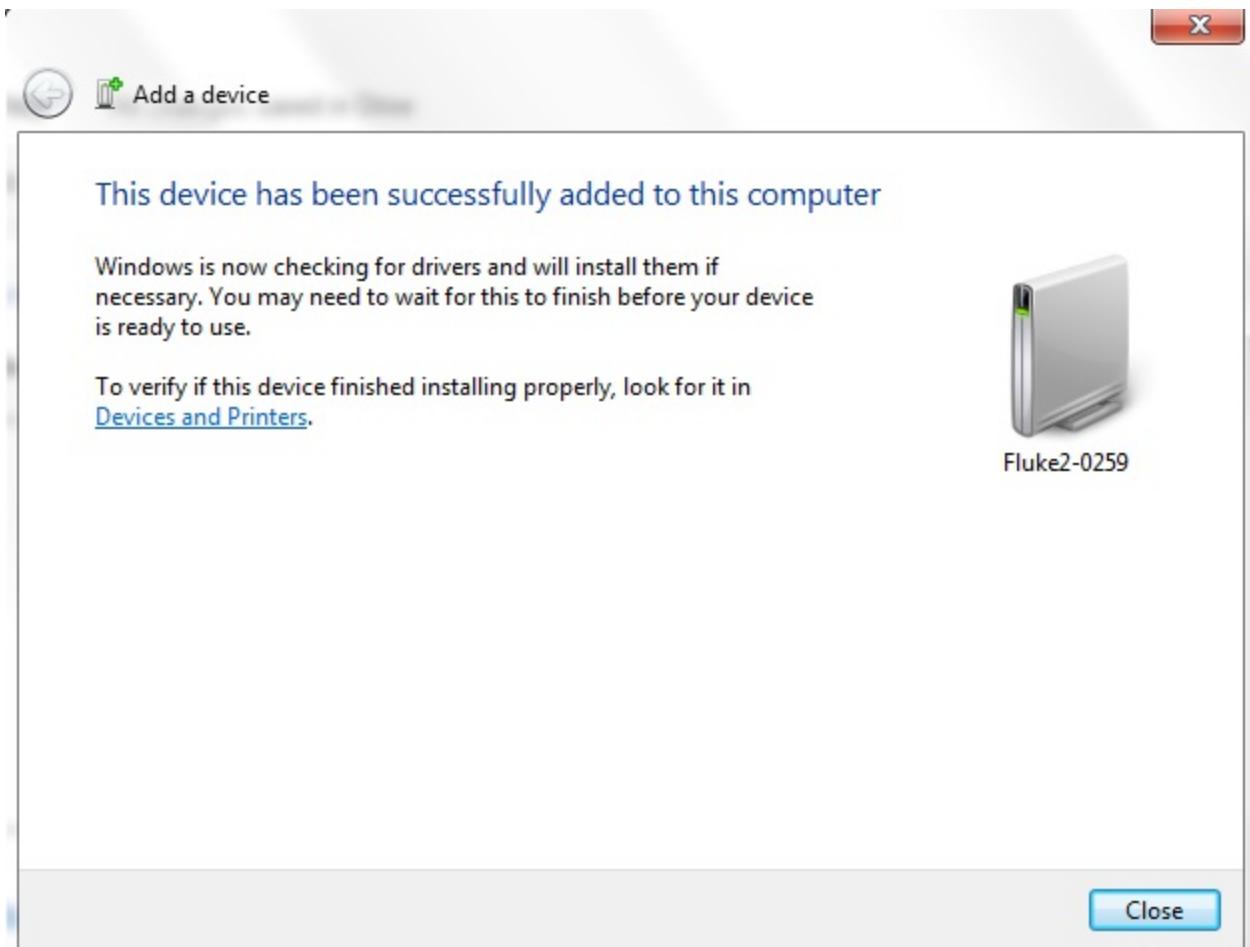


3. Select your Fluke2 and click Next - it should have an ID number matching the ID number on the sticker of your Fluke

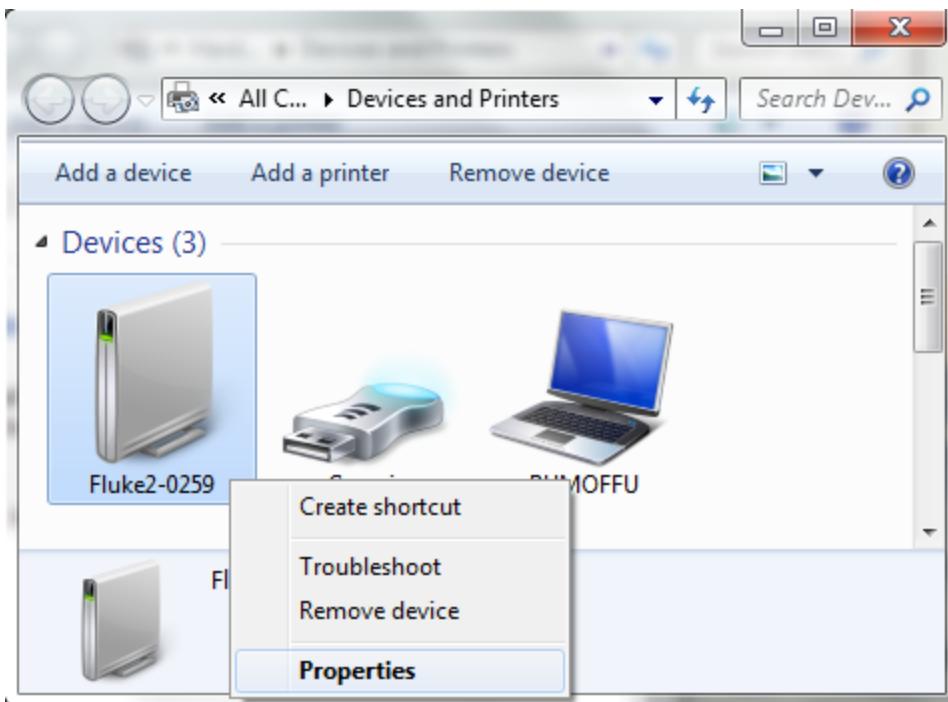




4. It should successfully complete, so left-click the blue Devices and Printers link

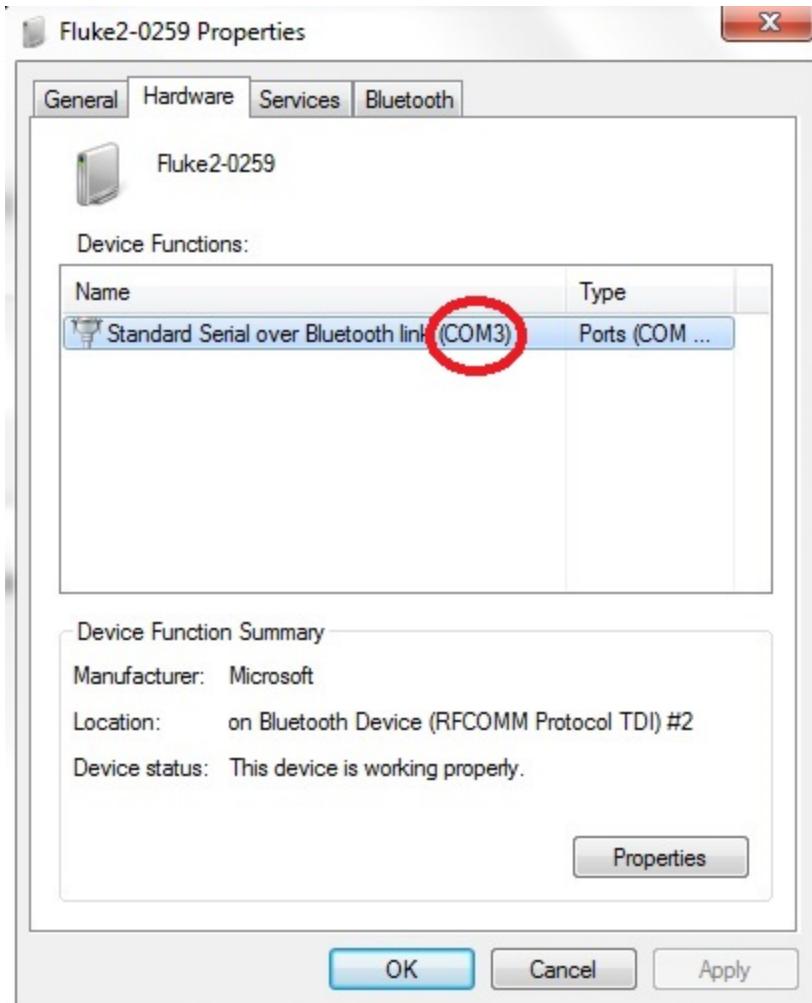


5. Left-click the new Fluke device and right-click it and left-click on Properties



6. Remember the COM port your fluke is using - in this screenshot, mine is COM3

(Note: some people have noticed issues when their randomly assigned COM port number is 10 or higher - if you have similar issues, there are many suggestions online for how to fix it)

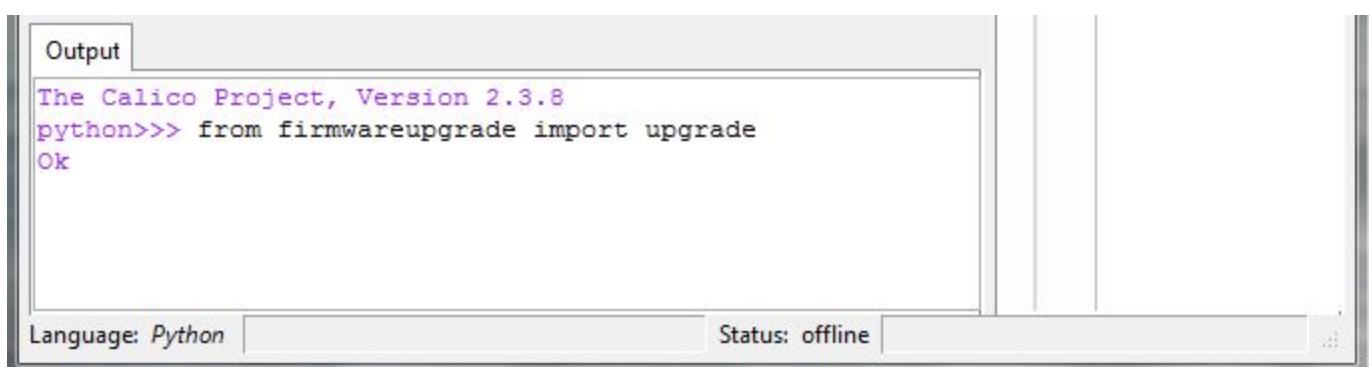
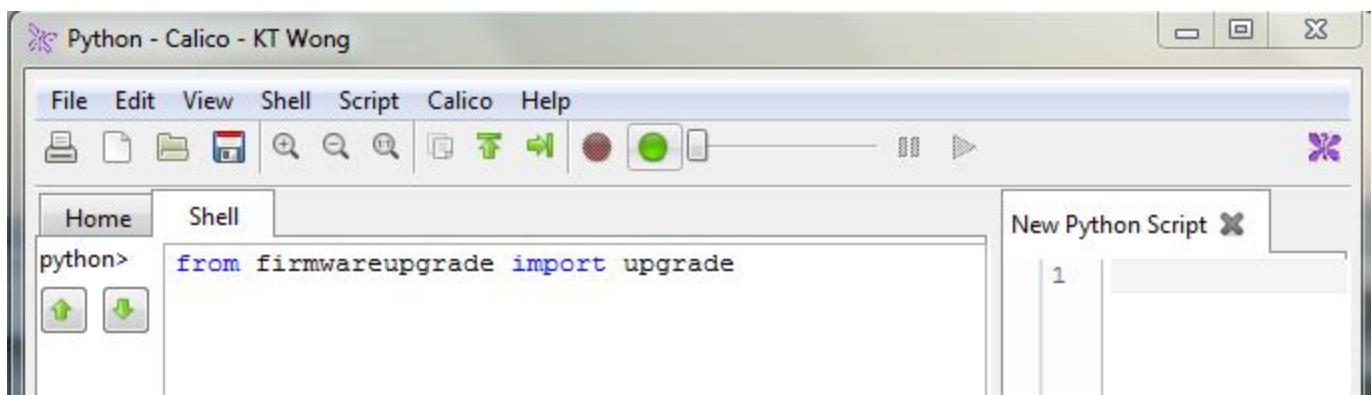
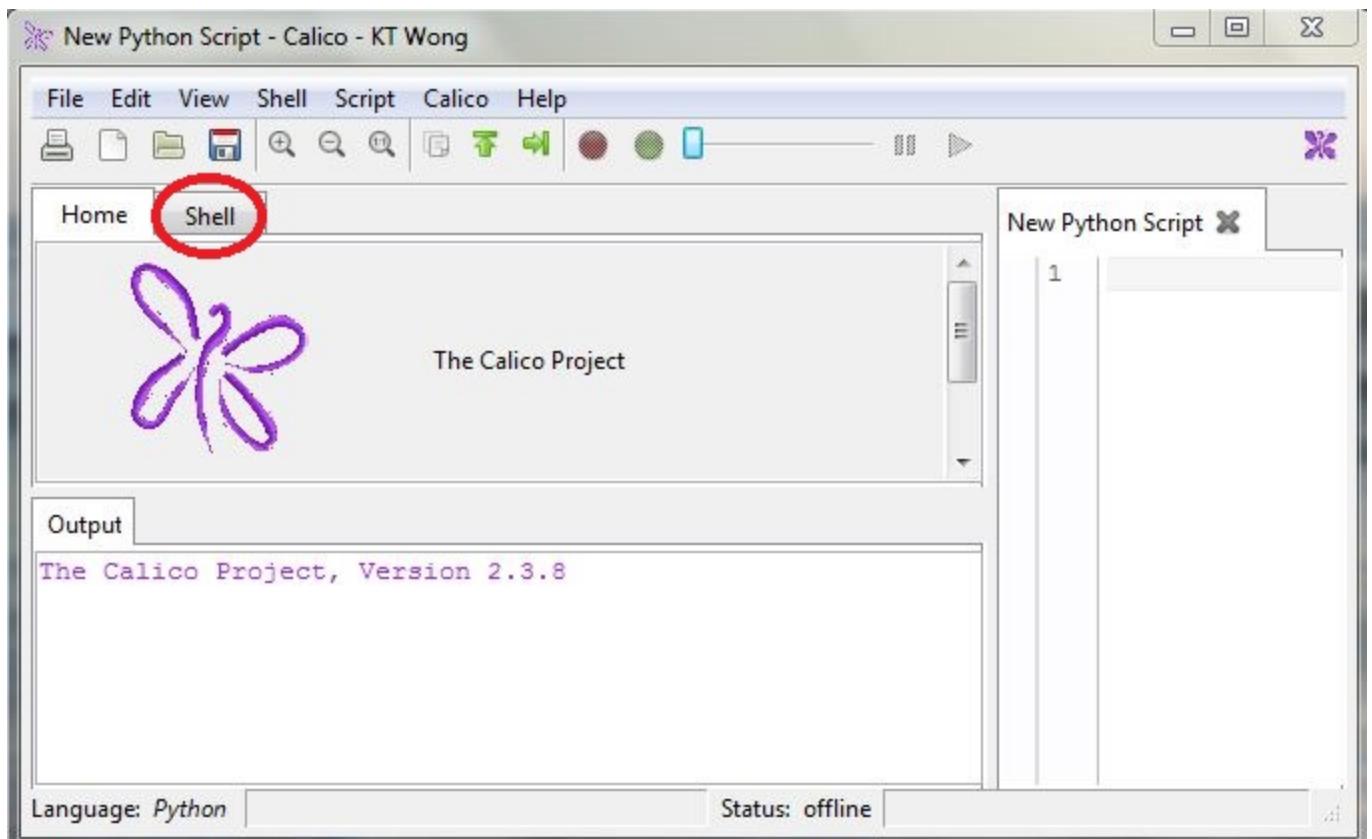


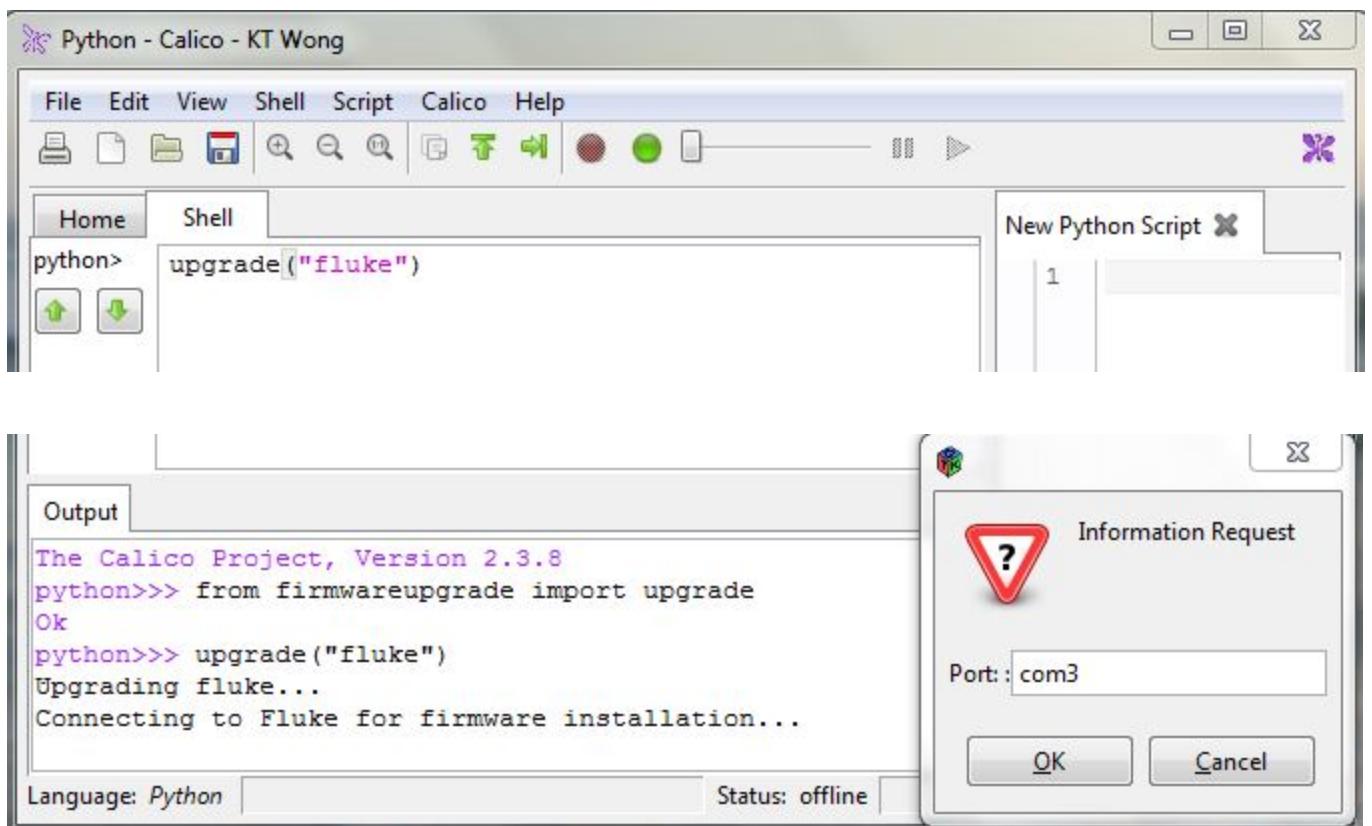
7. Now, you can connect to the Scribbler using this port number

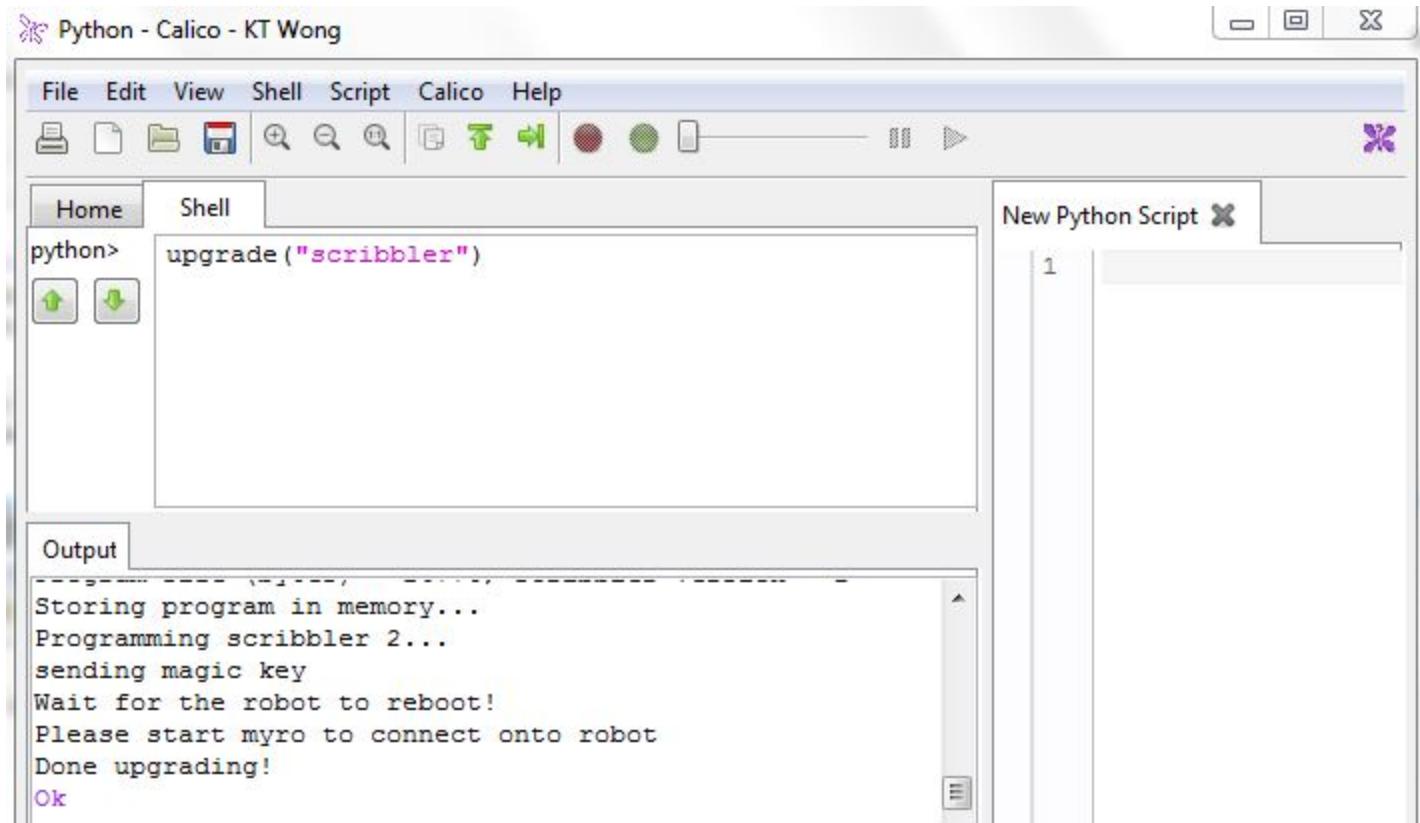
Step 3: Connecting to the Scribbler with Calico and Upgrading

1. Go to your desktop and double left-click the StartCalico.bat - Shortcut and Run it
2. Click on Shell
3. Type the following lines and press enter after each line. You'll need to enter the bluetooth port in a pop-up window, which is what you got in Step 2 (ex: **com3**): (pictures are below)

```
from firmwareupgrade import upgrade  
upgrade("fluke")  
upgrade("scribbler")
```







Done! Now you're ready to run your first program. NOTE: You may need to close Calico and re-open it before starting to run your first program.

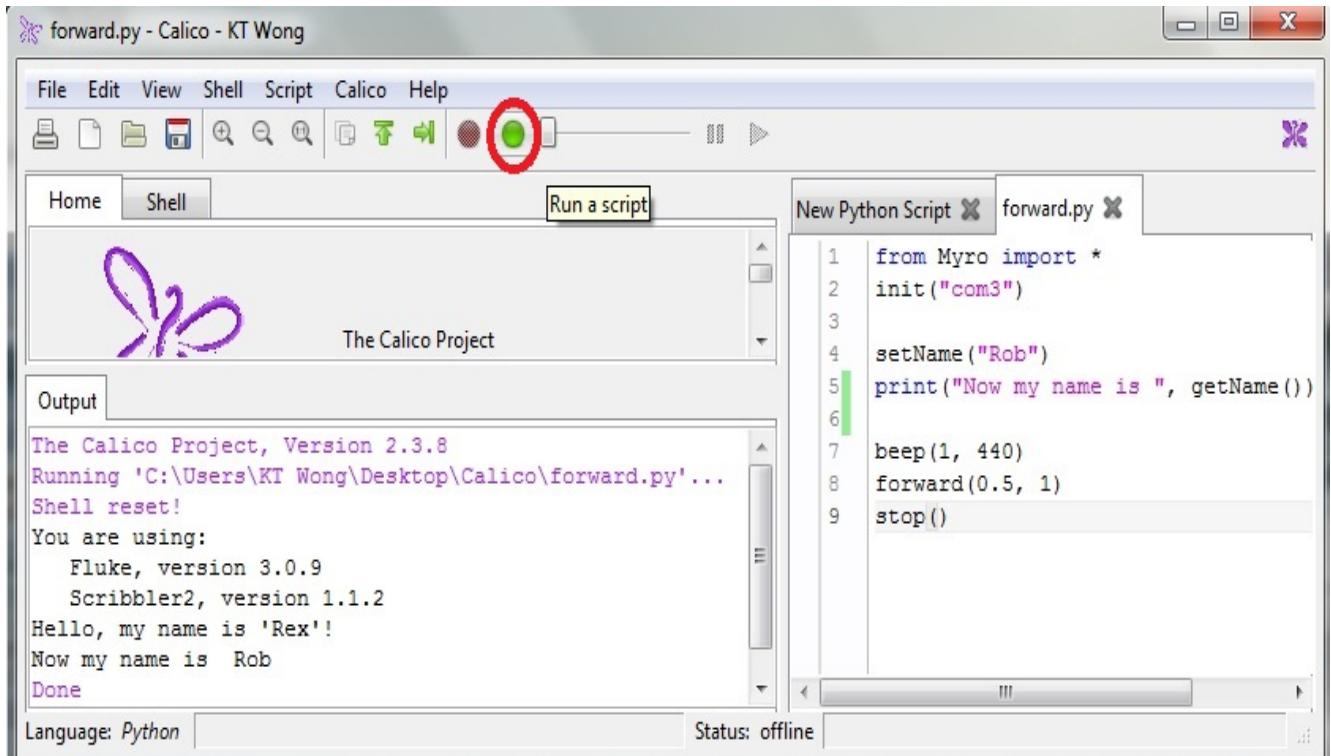
Step 4: First Program

You can follow along and type python code as shown or just copy and paste it into the Calico window:

The first lines should start with importing all (*) functions from Myro and then initializing your Scribbler:

```
from Myro import *  
init("com3")
```

where the com port number is from the bluetooth setup



You can set your Scribbler's name into the Scribbler's memory and then you can print the newly set name with

```
setName("ShyGuy")
print("Now my name is ", getName())
```

For some basic functions, you can use

```
beep(1, 440)
forward(0.5, 1)
stop()
```

which will make the Scribbler beep for 1 second at 440 Hz and move forward at a speed of 0.5 (where 1 is the max speed) for 1 second and then it will stop all movement and end

The total script is:

```
from Myro import *
init("com3")

setName("ShyGuy")
print("Now my name is ", getName())

beep(1, 440)
forward(0.5, 1)
stop()
```

3. Left-click the Green button to run the program. You can save the file under any name - in this guide, we will call it forward
4. After your Scribbler beeps and moves forward, you have run your first Scribbler program!
(Note: If you get an error such as "unable to open port '\\.\com3' then you might have a bluetooth adapter problem which has often been solved by switching to the suggested Azio bluetooth usb adapter dongle)