Instructions and Checklist for Starting Myro on Info Commons Windows PCs

1. _____ Log in with your Net Id and Password.
2. _____ Close all windows.
3. _____ Make sure Robot power switch is Off (0).
4. _____ Deploy batteries or verify or attach power adapter. Plug in power adapter if used.
5. _____ Gently mate the Fluke board with the serial port on top of the Robot.
6. _____ Plug in the Bluetooth adapter into a USB port on the front of the computer you are using.
   Do NOT use a Bluetooth port on the side of the flat screen monitor.
7. _____ Verify the Fluke board is plugged all the way into the Robot's serial port, TURN ON the Robot.
   Verify that it made some sounds and the green light remains on. A light on the Fluke board should be illuminated also.
8. _____ Click on the Bluetooth icon in the system tray, lower left corner of the screen. It should appear a few seconds after plugging in the Bluetooth adapter.
9. _____ Select the "Add a Bluetooth device" option. (DON'T try any others. You will be frustrated if you do because users have insufficient privileges.)
10. _____ In the Add New Bluetooth Wizard box, CHECK the "My device is set up and ready to be found", then click Next.
11. _____ Wait for the search to finish. Look for an icon that is labelled "IPRE6-??????" where ???? is a 6 digit number. If there is more than one "IPRE6-" icon, LOCATE the one whose ????? number matches the number on the white barcode label on the Fluke board. In any case, VERIFY that the number on the Fluke board's barcode label EQUALS the number of
a displayed icon. Select that icon and click Next.

12. _____ Check the 4th box down for don't use a passkey.

13. _____ Click Next.

14. _____ Look for the line that says "Outgoing COM port:" At the end, it shows "COM?" where ? is a number. WRITE that number here because you will need it **COM____** Click Finish.

15. _____ From the Start Menu, select the Python choice and then "Start Python.pyw" at the bottom secondary menu. The Python IDLE Shell window should come up.

16. _____ When you get the 3-caret ( >>> ) prompt in the Python Shell window, type the following and press ENTER: **from myro import ***

17. **The next two steps must be done in quick succession.**

18. _____ When the 3 carets are printed again, note the COM____ number again. Type the following and press enter: **init( "COM?" )** where the "?" is the number you noted and wrote above.

19. _____ Look for a pop-up above the Bluetooth icon in the lower left screen corner. If the popup says "Passkey requested" Click on the popup, enter 1234 in the box that appears, and click OK.

20. _____ If all is well, (1) the Robot will make another sound, slower than the first you heard, and (2) lines including the Robot's name will be printed under the carets in the IDLE shell window.

**How to recover when the connection gets broken.**

1. _____ Make sure the Python program file you are writing and editing HAS BEEN SAVED. It doesn't hurt to save it again.

2. _____ Close (click the X icon) all Python windows.

3. _____ Turn OFF the Robot.

4. _____ Unplug the Bluetooth adapter. Wait about 5 seconds and plug it in again.

5. _____ Wait for the Bluetooth icon to appear in the system tray.

6. _____ Now, follow the steps above 7 through 20. BEWARE: the COM? number will be DIFFERENT each time you repeat those steps.

7. If all else fails, unplug the Bluetooth adapter and RESTART the computer. (Not just log out.) Use a different Info Commons computer if convenient. Redo everything on a freshly booted computer.

**Working without a physical Robot--if it's unavailable or not working**

1. _____ Start Python as usual.

2. _____ Type as usual after the >>> **from myro import ***

3. _____ Instead of specifying a COM port, type after >>> **init( "simulator" )**

4. Of course, the physical Robot won't respond. But, window with a simulated robot image will appear. Besides making it move with Myro operations in your programs, you can press-and-drag the robot image to simulate picking it up and putting it down somewhere else.

**A shortcut for broken connections.**

This procedure sometimes works. If not, use the longer procedure.

1. Power-cycle the Robot. Python/IDLE remains up.

2. Unplug the Bluetooth adapter, wait a few seconds and plug it in again.

3. Follow the directions from clicking the Bluetooth icon to noting the COM number.

4. In the IDLE shell window, give the command: **init ( "COM?" )**

   where ? is the latest (output) COM number. **Do NOT repeat importing from myro!**

5. If the passkey required popup appears, click it and enter 1234.

6. If all is well, the robot will beep again slowly and the greeting from the Fluke with the Robot's
name will be printed.