Operation

Ctrl+alt+t open the terminal (open two or three: read, control, MPC(python code))

Ctrl+r search

Press the button in Arduino to reset it(to default)

ctrl+c stop

$stty -F /dev/arduino\_m raw 38400 -hupcl (start the Arduino)

$cat /dev/arduino\_m (read the status-arduino)

$echo “w, 2”> /dev/arduino\_m

To access external python code (OES for example)

$cd xx

$workon sci3

$python spectroscopy.py –loop –live

On Mac

please put MCP4922.h and MCP4922.cpp to the same path, also change the <MCP4922.h> to "MCP4922.h" in the code.

**Initialize Arduino**

$stty -f /dev/cu.usbmodem1434401 raw 38400 -hupcl & cat /dev/cu.usbmodem1434401

**Send commands to ignite the plasma**

$echo "p,100" > /dev/cu.usbmodem141301

$echo "w,2" > /dev/cu.usbmodem141301

$echo "q,1.5" > /dev/cu.usbmodem141301

**Change directory**

$/Users/adbonzanini/Box\ Sync/APPJ\ control\ codes/APPJ\_Control\_Dogan/Software/

**Install libraries (only the first time):**

$pip install seabreeze

$pip install libusb1

$pip install pyserial

$pip install opencv-python

$pip install opencv-python-headless

**Also install** [**libuvc from groupgets**](https://github.com/groupgets/libuvc)

**Remember to run everything using Python3**