# Control Folder

Some devices have their own folder, some are in PythonPackages

Servers

* CavityLock
* FianiumController
* Laser Controller
* Multispec\_server\_ctypes
* PiezoController
* SlowPowerStabilisation
* SpectrometerCavityLock
* ExperimentalControlServer: generic template (I think)

Not in PythonPackages

* IDQtdc (ID Quantique time to digital converter – ID801)
* Thorlabsapt

DLL folders

* Camera
* HydraHarp
* Multispectrometer
* Spectrometer

Other

* Scripts: some generally useful utilities, eg calibration scripts
* PythonPackages: What it says on the tin
* Experiments: Experimental scripts, sorted by date
* Old\_20190104: Removed by BTW on this date
* Learning: From when we have made new scripts/set up new devices in the past. All the useful bits should be folded into the main scripts.

# Spectrometer control

Old: avs-spectro dll provided by Avantes (AS5216.dll). pyspectro written in cpp to unpack these functions for python. Only works when one spectrometer is connected.

Intermediate: pyspectro modified so a single spectrometer can still be used, even when multiple spectrometers are connected (but does not allow multiple spectrometers to be used at once).

New: Functions are now called directly from AS2516.dll using ctypes, making pysepctro redundant. These ctypes are implemented in the multispectrometer server. They could also be implemented in pbec\_experiment, but the intention is that all future experiments will read the spectra from the server. Leaving pbec\_experiment untouched guarantees backwards compatibility.

SlowPowerStabilisation calls its spectra from the server, but SpectrometerCavityLock has not yet been updated to call its sepctra from the server.