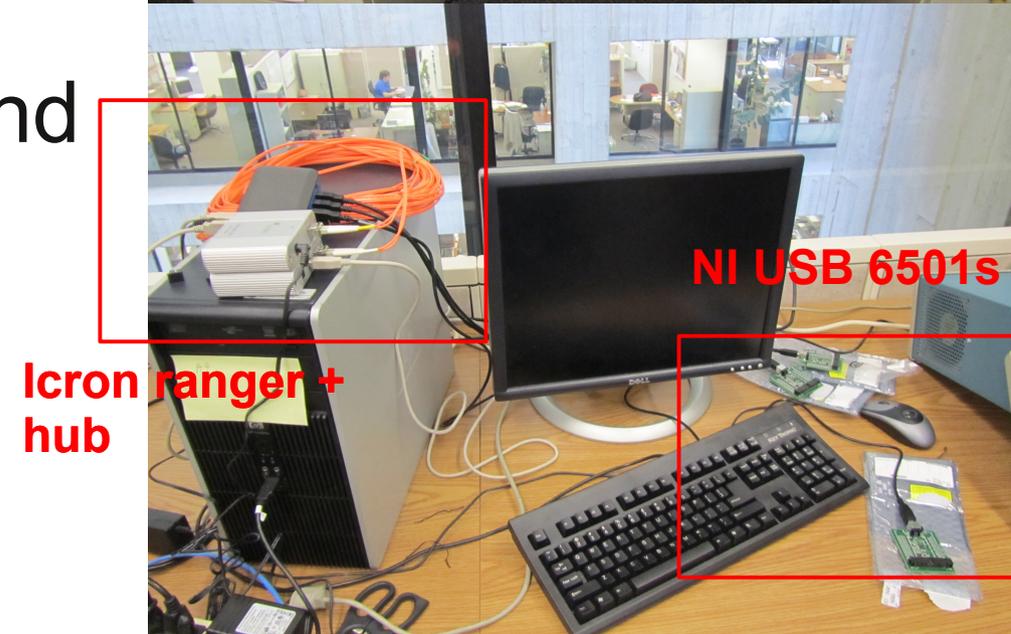
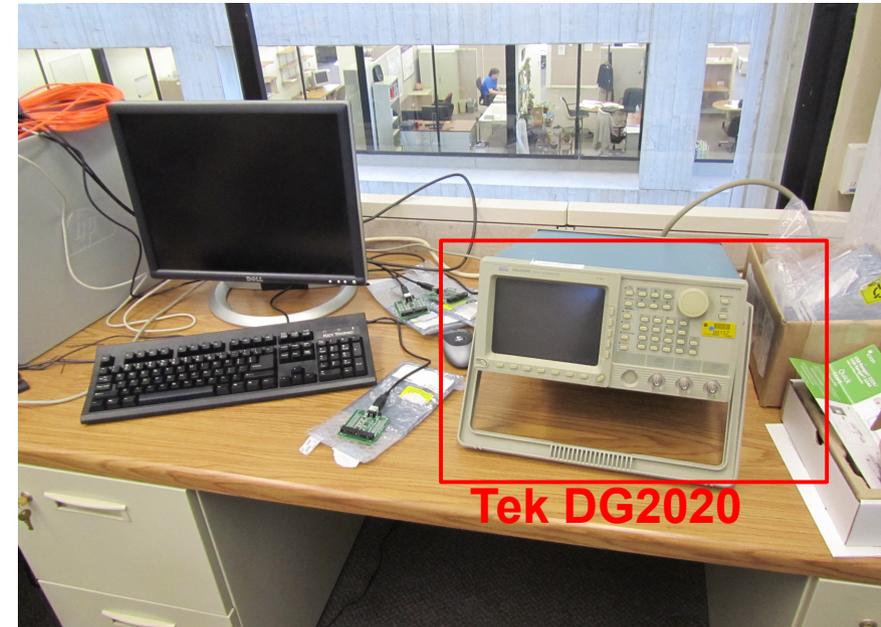


Hardware Update

Andrzej Szelc

Test stand at WH10W

- Thanks to Linda, we've set up a testing area on the 10th floor.
- Test usb-GPIB/ethernet-GPIB connection for the AWG 3252 pulser
- Test the NI USB 6501 and USB ranger+hub setup



GPIB communication

- First step: using the NI USB-GPIB converter as in BNL.
- Installed the ni488 drivers from installation CD – patch needed.
- Tested GPIB communication on a tektronix DG 2021 – works!
- Code exists now to talk to the AWG 3252 (using the reference manual) → Chen tested it on his machine – minor corrections to implement.
- Next step: convert to VX11 protocol to use GPIB commands over ethernet.

USB communication

(for the ASIC boards)

- Idea is to test if the ranger + hub setup works.
- So far, we have 3 NI USB 6501 – possible to test multiple module operation.
- Installed two new boards – needed to update firmware – use penultimate version of niDAQ-base.
- For now, we checked if the NI driver recognizes the boards using “lsdaq”
- Works for: basic USB connection; USB hub connection; USB ranger+USB hub connection.
- Next step: read/write from the boards – probably based on existing Georgia's code.