

NASSAU COMMUNITY COLLEGE  
Engineering/Physics/Technology Department  
Prof. D. Wade

GENERAL INSTRUCTIONS FOR LABS DONE WITH THE ANALOG DISCOVERY  
(In addition to any instructions given in the lab write-up. These apply to all labs throughout the term.)

- In your equipment list you must include the model of the AD (Discovery, Discovery 2, etc.) and its serial number; the computer used (make and model and number if a school computer); and the name and version of the software used. Don't forget that, as appropriate, manufacturer, model number, & serial number of all other equipment must be specified.
- For any ICs used you must give the full type as printed on the IC, not just the generic 74XX number. (For example: not just “quad 2-input NAND 7400” but “quad 2-input NAND **DM74LS00N**”.)
- Every circuit used (even a very simple one) requires a **detailed** wiring diagram which not only must include IC pin numbers (including an indication of power and ground) but also must show the connections to the Analog Discovery. The Analog Discovery connections must show the number of the I/O channel and the channel number of any connections of the 'scope or voltmeter. This diagram should be done before actually wiring so it can be used for troubleshooting.
- A screen shot of the I/O setup of the Analog Discovery for one value of the test data for each procedure should be included in your report. This must be clearly identified as to which particular set of data is being measured. If other (except the voltmeter) virtual instruments are used, there should be one screen shot of them as well – again clearly identified as to in which particular procedure step(s) they are used.

*Hint: For Windows computers, “alt-PrtScr” will put a picture of only the active window on the clipboard. Or you can use Microsoft's (or any other) Snipping Tool. Once the picture is on the clipboard, it can be pasted into a word or other document.*

OTHER COMMENTS:

- Don't forget to get the instructor's signature on your rough data *before* you have taken apart the circuit. The rough data must have your name and the name of any partners in the group. And this signed rough data is to be included at the end of your report.
- And the printed experiment sheets are also to be attached at the end of your report.