

**Experiment III:
Echo Filters on the NEXYS 2***Hand-In Sheet*

Name: _____

Student ID: _____

Date: _____

Group Name/Members: _____

Part Completed

(Tutor)

Laboratory Part 1 and Part 2:

Briefly explain what happens when you adjust the value of alpha and D:

This asked you to build a FIR Echo Filter. What differences do you observe between the IIR Echo Filter and the FIR Echo filter?

Laboratory Part 3:

(1) How many echoes can you hear for each of the FIR and IIR modes? (Part 3, Step 2)?

(2) You will notice a change in echo times, but what other things are happening to the output signal? (Part 3, Step 3)

Laboratory Part 4

Briefly explain what transpires as the alpha and delay are changed. What is the difference between the delay set at $1/8$ and set at $6/8$?

Total Extra Credit Awarded: _____

Tutor Sign-Off: _____