**ECE 3822: Software Tools FOr eNGINEERS**

# HOMEWORK No. 2: Command Line PROCESSING

The goal of this homework is to demonstrate how your editor can be used as part of your set of tools to manipulate large volumes of data.

The tasks are:

1. Create a list of all the \*.txt files in our example database.
2. Write a bash shellscript that reads the filelist as a command line argument and writes the new file to standard out. Your bash command should look something like this:

sh myscript.sh files.list > x.sh

The shellscript “myscript.sh” is a program, using bash programming, that converts filenames like:

/isip/data/tuh\_eeg/data/book\_13/012345678\_20130101/Jones\_John/eg\_00.txt

to filenames like:

/usr/tmp/joe\_000027.txt

The output file, “x.sh”, will look like this:

# my shellscript

cp <first filename on your list> /usr/tmp/joe\_000000.txt

cp <second filename on your list> /usr/tmp/joe\_000001.txt

cp <third filename on your list> /usr/tmp/joe\_000002.txt

...

1. Next, repeat this by simply loading “files.list” into the text editor of your choice, and using its advanced capabilities to directly create the new file. (Personally, I’d do it with an Emacs macro :)

What you are learning in this exercise is that we often construct solutions using a combination of tools, such as the command line, programmable editors, and scripting languages. The point is to be able to construct these solutions accurately yet quickly.

Your homework report needs to document the techniques you used to create the solutions.