**PIC32 – Lab # 0**

1. Go to <https://www.youtube.com/watch?v=jBwzfmpyFiY&index=2&list=PLggLP4f-rq02SD4GoDSfJEpXyPjYpHXvD>
2. Create a file. (Note: you don’t have to create the file using command prompt like the video.)
3. Go to <http://hades.mech.northwestern.edu/index.php/NU32_Software>
4. You have to download the following and put them into the file that you created
   1. The Microchip XC32 Compiler
   2. The Microchip XC32 Compiler
   3. FTDI Virtual COM Port Drive
   4. PuTTY Terminal Emulator for Windows
   5. Full Book Source Code
   6. PIC32Quickstart.zip
5. Follow the video and do the installations. (Note: remember where you have installed your software.)

Saving you typing time:

“ ;C:\MinGW\bin;C:\MinGW\msys\1.0\bin” (you may have different version)

“xc32-gcc simplePIC.c –mprocessor=32MX795F512H –Wl,--script=skeleton\NU32bootloaded.ld –o simplePIC.elf”

“xc32-bin2hex simplePIC.elf”

“nu32utility.exe \\.\COM4 simplePIC.hex” (you may have different COM#)

Makefile:

XC32PATH=C:/Program Files (x86)/Microchip/xc32/v1.42/bin

HARMONYPATH=C:/microchip/harmony/v2\_02\_00b (you may have a different version)

NU32PATH=C:/Users/Eric/Desktop/Senior Project/PIC32Quickstart

PORT=\\.\COM4

TERMEMU=C:/<username>/putty.exe (location of your putty)

1. Command for compile your program:
   1. make
   2. make write
   3. if you want to recompile your program: make clean
   4. Emulator: make putty, Mac/Linux: make screen
2. If you are successfully done everything in the video. You can go work on the next lab.
3. Copy your talkingPIC file and then rename it to lab1. The talkingPIC.c would be your main program, you can rename it as well.