**ECE 1111: Engineering Computation I**

**Homework No. 1: Cloud Computing**

**Goal:** Demonstrate that you can log into Amazon AWS, traverse the file system, execute simple Unix commands and manipulate your environment.

**Description:** The tasks are:

1. Log into your Amazon account. List the files in your home directory using “ls -l” or the alias “d”. Capture the screen output into a Word document by cutting and pasting the text from your terminal window – not including a screenshot (there are reasons for this).
2. Demonstrate the use of command completion for both Linux commands and for filenames that match what you have typed from the command line. For example, type “nedc\_” and hit tab. Explain the output that you see. Then change directories to your home directory using “cd $HOME”. Follow this by typing “ls -l .ssh/” and hit tab. Explain what you observe.
3. Explain the function of your .bash\_profile and .bashrc. Use the more command to view these. Include a copy of these in your report.
4. Using the text editor emacs, modify your .bash\_profile to print “hello world” when you log in or open a new session. Similarly, modify your .bashrc so that every time you create a new shell, “hello ece\_1111 class” is displayed. Demonstrate the difference between logging in and starting a new shell. Explain when each of these are executed.
5. Demonstrate the use of the "ls -l" command by changing your directory to your ece\_1111 directory and displaying the contents of your .ssh directory. Explain what information is shown in the output.

Submit these five results in a pdf document located here:

ece-000:/data/courses/ece\_1111/current/homework/hw\_01/<lastname\_firstname>/hw\_01.pdf

Use the MS Word template located here for this assignment:

https://www.isip.piconepress.com/courses/temple/ece\_1111/resources/templates/lastname\_firstname\_hwxx.docx

Follow these instructions carefully. An important part of this course is learning how to conform to requirements. Programming involves a process of setting requirements and then implementing code that meets those requirements. Requirements gathering is an important part of the programming, or software engineering, process.