

PH351001 CONTEMPORARY ELECTRONICS LABORATORY

Homework Assignment #2:

LabVIEW Exercise I: Labview Three Hour Tutorial

MUST BE COMPLETED BY NOVEMBER 27, 2017 AND EMAILED TO michael.burns.3@bc.edu, HOWEVER READ ON WHY YOU SHOULD DO IT SOONER!

You will need your PC or Mac, as this assignment involves downloading software, installing it, and using it.

Part A:

1. Watch this : <http://www.learnni.com/getting-started>
2. [Watch this webcast \(http://www.ni.com/webcast/439/en/\)](http://www.ni.com/webcast/439/en/).
3. Go to <https://lumen.ni.com/nicif/us/evallv/content.xhtml>, create an account, and download the trial version of the LabVIEW Professional Development System. If you have a Mac, under step one on the download page, click the little '+' next to "Additional Operating System and Language Downloads of LabVIEW" to access the appropriate download.
4. Watch the 5 videos at http://www.ni.com/gate/gb/GB_EVALLV/US ("Introduction to the LabVIEW Environment (3:21)", "Dataflow Programming in LabVIEW (4:04)", "Creating Loops in LabVIEW (4:08)", "Find Existing Code in the Example Finder (3:23)", "Getting Started with NI LabVIEW (9:16)")

Part B: (Read all of the steps before installing the software.)

1. Install the software you downloaded.
2. After installing LabVIEW on your PC or Mac, open it. *The initial trial license is only good for 7 days.* (You can try extending the trial period but you should not need to. <http://zone.ni.com/reference/en-XX/help/371136H-01/nilm/html/eval/>)
3. You will need the "Getting Started with Labview" manual, which can be downloaded <http://www.ni.com/pdf/manuals/373427j.pdf>
4. The first three Chapters of the "Getting Started with Labview" manual are tutorials on how to use LabVIEW. They each take about 40 minutes. Do all three (Chapter 1, Chapter 2 & Chapter 3.) *Note: For Chapter 3, if it looks like if in the template section, you don't see the "Tutorial (Getting Started)»Generate, Analyze, and Display", then use the "VI»From Template»Simulated»Generate and Display" & you can skip all the steps about removing the RMS indicator.*
5. Email michael.burns.3@bc.edu when you have completed the tutorial and send copies of any VIs that you built as a result of the tutorial.