Windows/LabVIEW Installation Installation and Setup Instructions:

Installing Windows 7:

- To install Windows 7, one must first acquire the ISO file from the [U.Va. Software Gateway](). The Gateway offers Windows 10, 8.1, and 7. An individual can only get one copy of each title, and they will only have access to the software download for 31 days unless stated otherwise. Please save all pertinent information need to utilize the downloaded software.
- Once the ISO file (ideally 64-bit) is acquired, a bootable usb device must be created with the file. In order to do so, download and install [Rufus]() (please note that while Microsoft does offer software to create a bootable usb device, the software is finicky and will probably not work properly). After the usb device and ISO file have been selected, Rufus will work its magic and create a bootable device.
- Insert the usb device and turn on the computer on which you will be installing Windows 7. If the computer is already on, restart it. Once the boot screen appears, press and hold F12 until the boot menu appears. Select the usb device. Once it boots, Windows will load files and take you through an installation process (please note that since a clean install is required, a "custom installation" must be done).
  - You will be asked to select regional options for the Windows 7 installation. Make your selections and click *Next* to continue.
  - In the next dialog box, you are prompted to start the installation. Click *Install Now* to begin the installation. This produces a screen that tells you that the setup is starting.
  - In the *Software License Terms* dialog box, ensure that you read and understand the End User Licensing Agreement (EULA). When you are ready, select the *I Accept the License Terms* option and click *Next* to continue.
  - In the *Which Type of Installation Do You Want?* dialog box, select the Custom (Advanced) option and click *Next*.
  - In the *Where Do You Want to Install Windows?* dialog box, select the partition onto which you will install Windows 7. When you're ready to proceed, click *Next*.
  - The Installing Windows dialog box appears and gives you an updated status of the upgrade process.

- ○ After some time, your computer restarts and the newly installed Windows 7 loads. Windows 7 then resumes the installation process.
- ○ After the restart, you'll see a notification telling you that Windows 7 is preparing the new installation. Windows 7 moves back into a graphical display after a few minutes and tells you it is updating the Registry settings and starting services.
- ○ After completing the installation, Windows 7 asks you to provide a username and a computer name. After providing this information, click Next to continue.
- ○ In the *Type Your Windows Product Key* dialog box, enter the product key that came with the machine you are installing Windows 7 on.
- ○ In the *Help Protect Your Computer and Improve Windows Automatically* dialog box, you configure the base security for Windows 7. In most cases, you should select *Use Recommended Settings*.
- ○ In the *Review Your Time and Date Settings* dialog box, select your timezone, daylight savings option, and current date options. Click Finish to complete the process.
- ○ In the *Select Your Computer's Current Location* dialog box tell Windows where you'll be using your computer.
- ○ Windows prompts you one last time. After you click Start, you are finished with the installation.
- ○ After a few more minutes, you are finally presented with your brand new Windows 7 login screen.
- Once the installation process is completed you will be able to log onto the machine. Note that there will be a lot of updates that need to be installed on the machine once you start using it.
- It is recommended that you install an antivirus program. Avast Antivirus is a good choice.

LabVIEW Installation:
- Download and install LabVIEW 2015 (64-bit) from NI.com. LabVIEW 2015 (or 2016) must be installed as the University has a site license for this version for faculty, staff, and students for research and teaching. Supposingly one could also install LabVIEW 2017, but at the writing of this set of instructions the University does not appear to have a license for this version.

- ○ It is recommended that LabVIEW 2015 be installed as most of the computers in the lab are running this version. This will ensure compatibility between programs created on different computers.
- Upon installation, open the NI License Manager. Select "Options" then "Preferences", then "Use Volume License Servers". Enter: "nivlm.eservices.virginia.edu,nivlm2.eservices.virginia.edu" (without the quotes) and click "OK".
- Click "Display Computer Information" to see the Computer Name and Computer ID. Write these down or take a screen-shot.
- Email res-consult@virginia.edu with the following information:
  - ○ Computer Name
  - ○ Computer ID
  - ○ Department
  - ○ Your UVA Computing ID
- There are also a small number of licenses available for those rare instances where a computer is not on the Internet and thus cannot contact the License Manager. These licenses need to be renewed annually. Contact res-consult@virginia.edu for details.
- If needed, drivers for LabVIEW can be obtained and installed here.
  - ○ The appropriate version of the following drivers **must** be installed in order for PDP to work:
    - ■ NI-DAQmx
    - ■ NI-VISA
    - ■ PXI Platform services
    - ■ NI-488.2