Jetson Board Overview for the Impatient

The Jetson board has 16GB of embedded MMC and comes booting Ubuntu Linux right out of the box. Booting something other than Linux is most likely an ordeal or development project that should not be taken on as a semester project.

Here are some key Getting Started Documents you should read FIRST:

1. Also, this Youtube on setup is very helpful and a great starting point -- https://www.youtube.com/watch?v=ghqM8pzjZxg
3. And NVIDIA Jetson getting started - https://developer.nvidia.com/get-started-jetson. You can do the Jetpack install, but so far I have just installed CUDA and OpenCV by hand after bringup of the GUI following the advice of the Youtube above.

Here are some key accessories you’ll want for your Jetson:

1. For the Jetson, I would order the following HDMI-DVI cable - http://www.amazon.com/AmazonBasics-HDMI-DVI-Adapter-Cable/dp/B00NH11X64, It is $8 and works well.
2. USB keyboard and mouse which along with the HDMI-DVI cable to a monitor makes the board work like a PC.
3. A USB Hub such as this one - http://www.amazon.com/Black-4-Port-High-Speed-USB/dp/B002FF78Z6/ref=sr_1_9?keywords=usb+splitter

Now that you have a Jetson and have gone through basic configuration, the rest of this document is about what you can do once you have your Jetson configured.

Just to give you an idea of what the Jetson can do, without even making use of CUDA, just the Quad-core SoC, take a look at the desktop screen capture for this configuration:
Note that for the Jetson, you do need a USB Hub for to expand ports to use Keyboard, Mouse, and multiple cameras.

Connecting two UVC driver supported cameras (), installing OpenCV, one can for example set up stereo vision configurations and provide real-time transforms such as Hough Linear shown here: