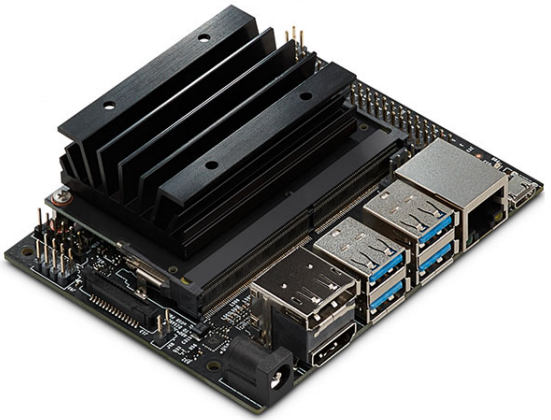
Write Image to MicroSD Card

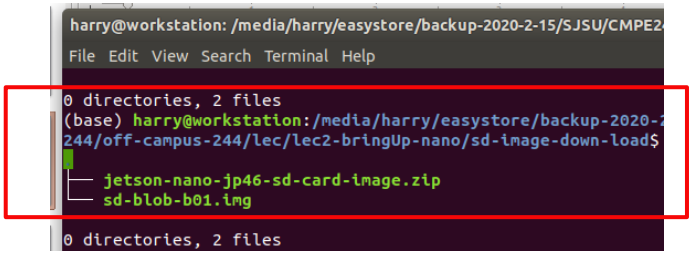
https://developer.nvidia.com/embedded/community



Prerequisite:
1. A micro-SD card (minimum 16GB) and SD card reader with USB interface;
2. A 5V 3A MicroUSB power supply;
3. An Ethernet cable;

Step 1. Down load SD card OS image from Nvidia to your host machine, laptop, the zipped file size is 6.1G, unzip it to get OS image, e.g., *.img file, ref:

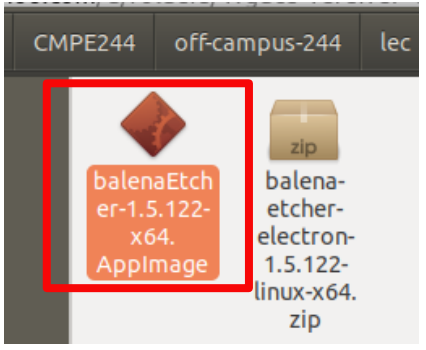
https://developer.nvidia.com/embedded/learn/get-started-jetson-nano-devkit#write



Step 2. Write the image to your microSD card by following the instructions from Nvidia, first you will need to down load the writer software “ethcher” to your host machine from this site:

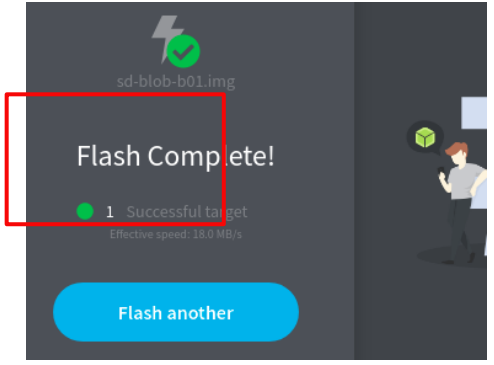
(2.1) for Linux host, Download, install, and launch Etcher.

https://www.balena.io/etcher/



Use USB card reader to place the SD card into your host machine, then double click “etcher” to start it to write

The program “etcher” on your host will take 10-15 minutes to write (flash) to the card, then it will validate the writing.

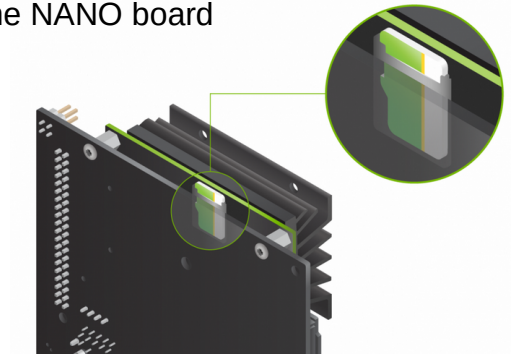


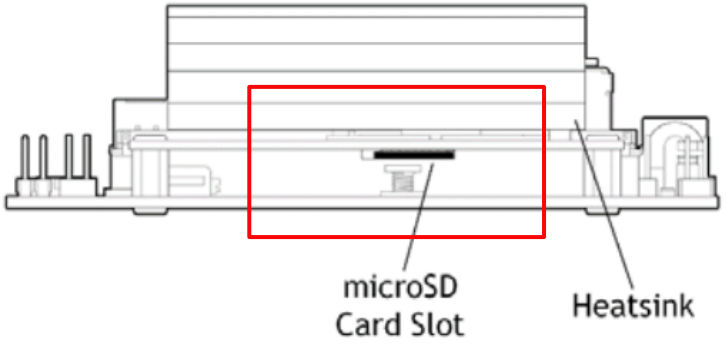
Harry Li, Ph.D.

Prerequisite for the First Boot

https://developer.nvidia.com/embedded/learn/get-started-jetson-nano-devkit#setup

1. take the USB card out from your card reader when you done copying OS image with the host machine, then Insert microSD Card to the NANO board





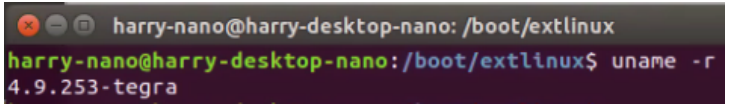
2. Have the user guide ready

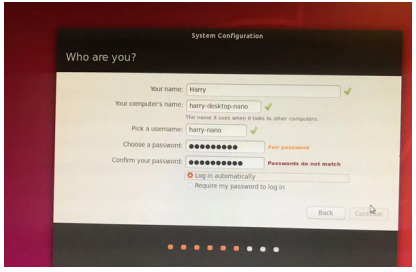
JETSON NANO DEVELOPER KIT User Guide

DA_09402_001_01 | March 18, 2019

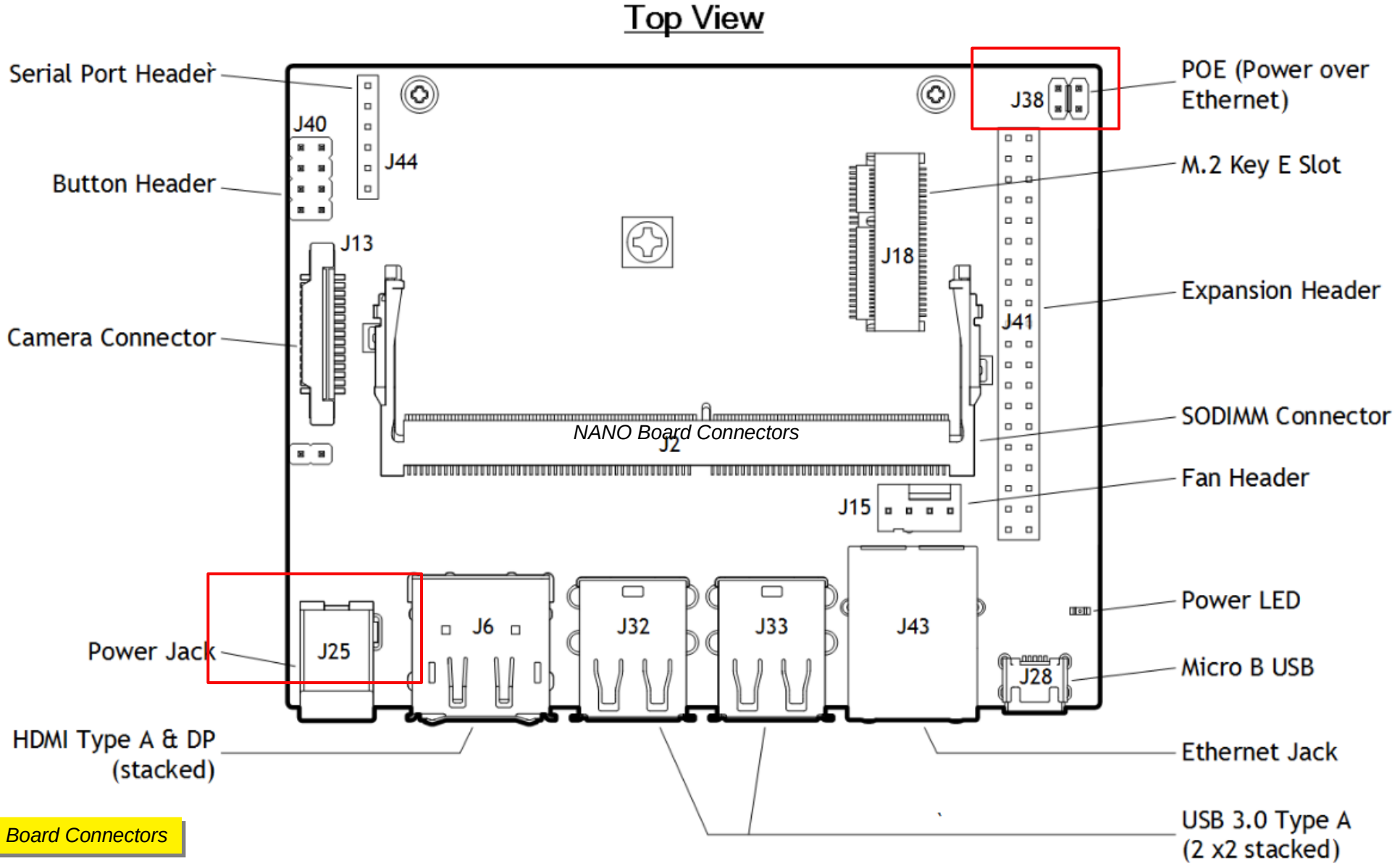
https://www.youtube.com/watch?v=dVGEtWYkP2c

Just connect to the power, your system should boot, then you will go through the init process.

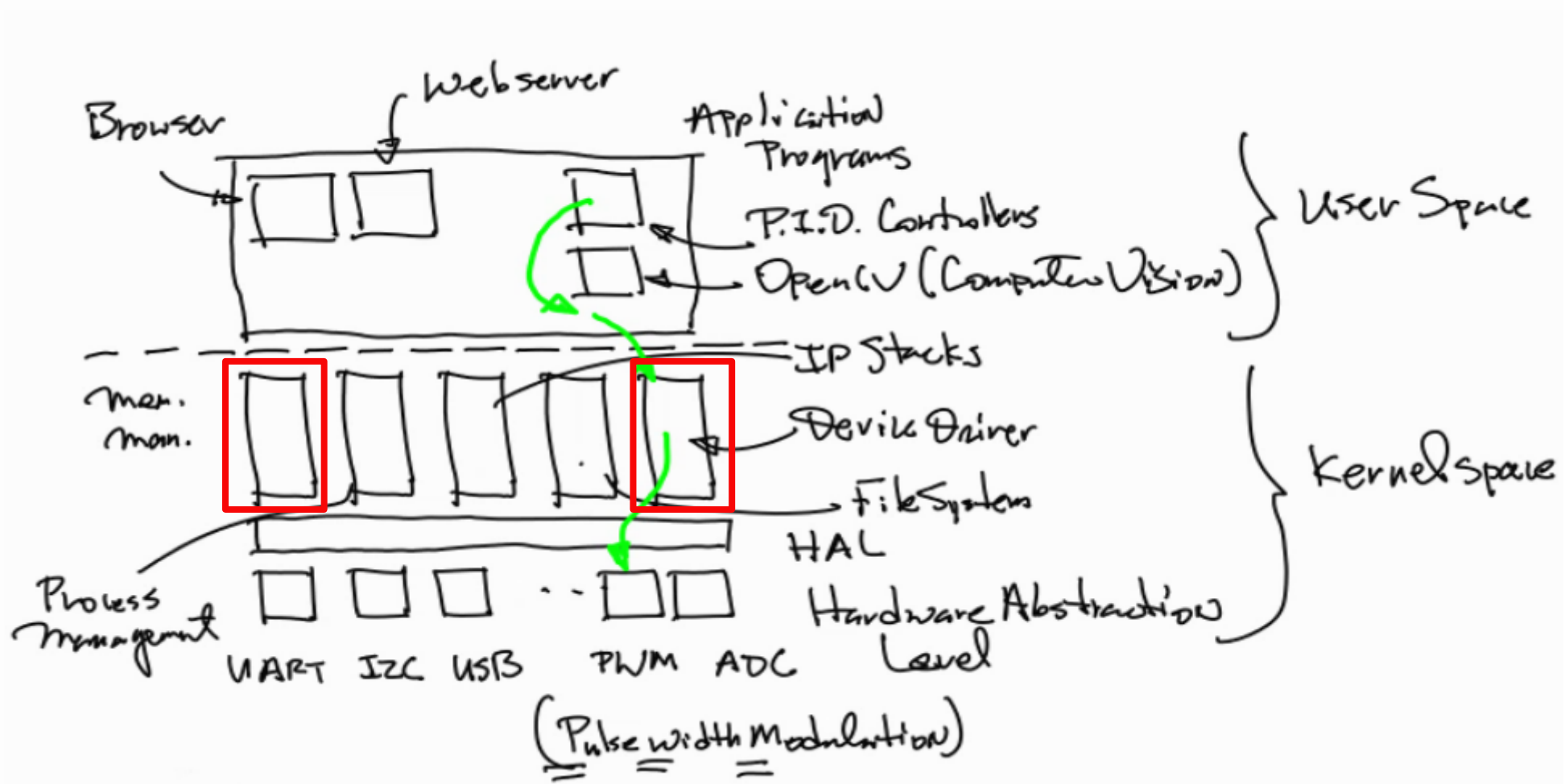




- Specifications of The New Dev Kit Module & Carrier Board
  - Main specification for new Jetson Nano Kit (PN: P3450)
    - B01 Jetson Nano CoM Module (PN: P3448)
- B01 Carrier Board (PN: P3449)
- Jetson Nano B01 vs A02: Changes


Top View
Serial Port Header
J40
J44
Button Header
J13
Camera Connector
J38
POE (Power over Ethernet)
M.2 Key E Slot
J18
Expansion Header
J41
NANO Board Connectors
J2
SODIMM Connector
Fan Header
J15
Power LED
Power Jack
J25
J6
J32
J33
J43
J28
Micro B USB
HDMI Type A & DP (stacked)
Ethernet Jack
USB 3.0 Type A (2 x2 stacked)

Embedded OS Concept



SDK Manager

After installation:

(base) harry@workstation:~/nvidia/src/public_sources/kernel/kernel-4.4$