1. Flash SD card with the Jetpack Image and insert into the Jetson. I have had issues with Jetpack 6.x, so I recommend using Jetpack 5.x (latest version as of May 2025 is 5.1.5). Please find the SD card image at this webpage: <https://developer.nvidia.com/embedded/jetpack-sdk-515>.

Alternatively, you can use the Nvidia SDK Manager to flash the Jetson. If you have a device that is natively running Ubuntu, this will work great. Otherwise, you will need a VM (specifically VMware Workstation). Some tips if using a VM – make sure you allocate plenty of hard disk memory for the VM and change the settings so that the USB connection to the Jetson automatically is sent to the VM.

1. Power on the device and connect to Wi-Fi so that we can SSH into the device.
2. Setting up SPI

* In opt/nvidia/jetson-io:
* Call sudo python3 jetson-io.py
  + Select options to activate spi1 and I2S
* Verify by calling sudo python3 io-config-by-pins.py
* Call sudo modprobe spidev

1. If you have issues with dev/ttyUSB0, you may need to call sudo apt remove brltty
2. Connect the corresponding SPI pins on the header to the SPI pins on the MCU control board