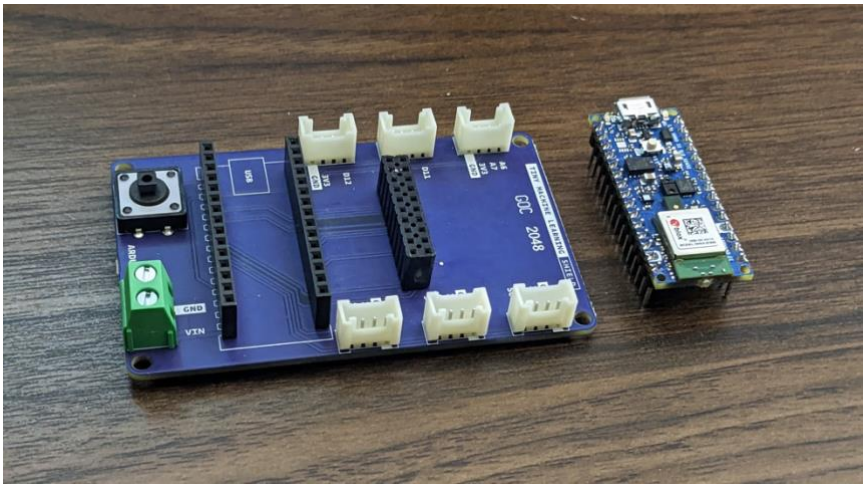
Setting up your Hardware (TinyML Kit)

We outline the required steps below:

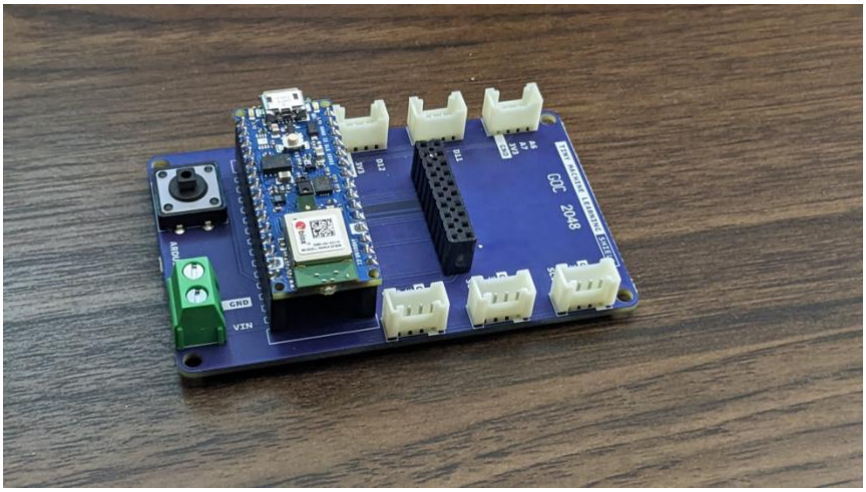
1. Slot the Nano 33 BLE Sense board into the Tiny Machine Learning Shield

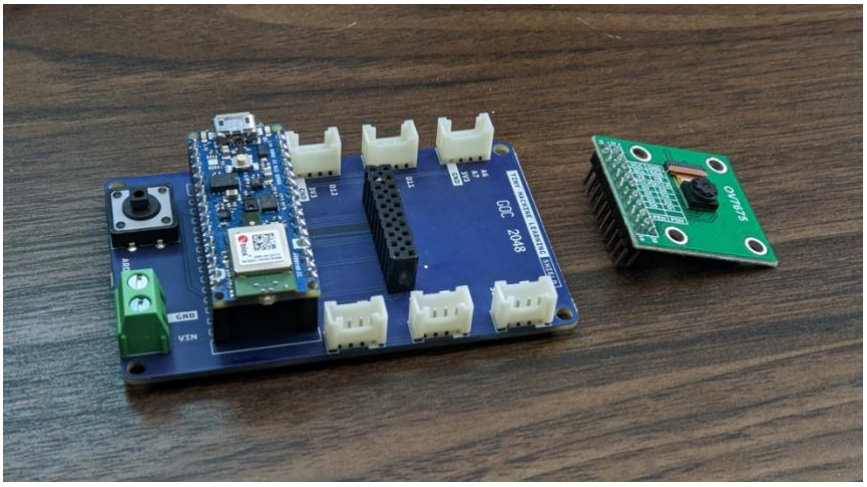


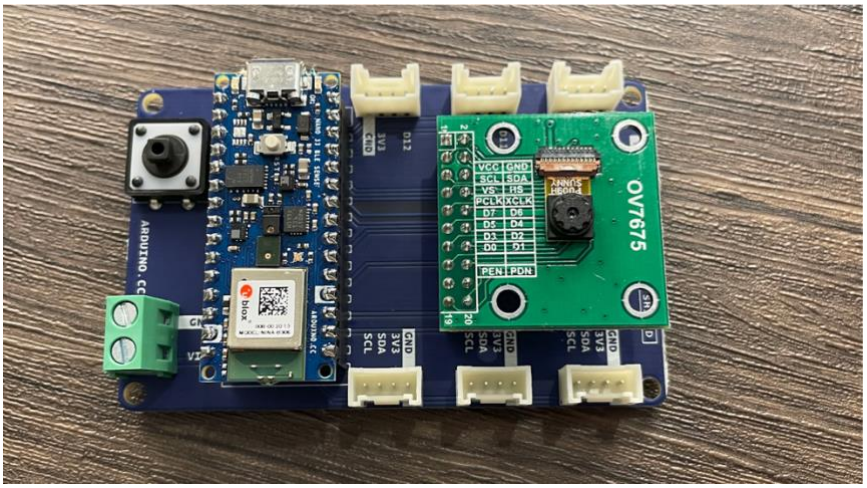
You'll want to target the pair of spatially separated 1x15 female headers. Carefully align the pins of the microcontroller board with the headers below and then gently push down until the board is seated flush against the top of each header. The downward facing pins should no longer be visible. As best you can, avoid touching the components atop the board to prevent inadvertently damaging the surface mount devices. Pay attention to the orientation of the board so that the indication of the USB port on the PCB silkscreen matches the physical port on the board itself.

2. Slot the OV7675 camera module into the shield using the same technique

You'll want to target the 2x10 female header. Carefully align the pins of the camera module with the headers and then gently push down until the board is seated flush against the top of each header. The downward facing pins should no longer be visible. As best you can, avoid touching the camera module atop the board to prevent inadvertent damage. Pay attention to the orientation of the camera module so that the camera sensor is to the right of the header array (as shown), further from the microcontroller board than the header array.







3. Use the USB cable (type-A to microB) to connect the Nano 33 BLE Sense to your machine.

If your PC only features type-C USB ports, you will need to obtain an adaptor.

Note that if you are *only* calling upon hardware found on the Nano 33 BLE Sense development board (say the MCU and IMU), you could forgo connecting it to the Tiny Machine Learning Shield. If you need to remove either the Nano board or the camera module from the shield, grip each side of whichever board and pull back with a *gentle* rocking motion (back and forth) to work the pins out from the headers below.