Rocketry

**06/05/2023:**

Parts list:

- Raspberry Pi Zero W

how to add adafruit-extended bus:

1. Enable software I2C by adding the following entry to your /boot/config.txt file: dtoverlay=i2c-gpio,bus=3,i2c\_gpio\_sda=27,i2c\_gpio\_scl=22. By default it will use GPIO 23 and 24. But I was already using them so I specified the ports as a parameter. It's however optional.
2. Reboot to apply the effects.
3. Double check with ls /dev | grep i2c. You should see a i2c-3 (bus 3)
4. Using the PythonExtendedBus. The following code can be used:

import adafruit\_bno08x

from adafruit\_bno08x.i2c import BNO08X\_I2C

from adafruit\_extended\_bus import ExtendedI2C as I2C

bno = BNO08X\_I2C(I2C(3))