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"""CircuitPython I2C Device Address Scan"""

# If you run this and it seems to hang, try manually unlocking

# your I2C bus from the REPL with

# >>> import board

# >>> board.I2C().unlock()

import time

import board

# To use default I2C bus (most boards)

i2c = board.I2C() # uses board.SCL and board.SDA

# i2c = board.STEMMA\_I2C() # For using the built-in STEMMA QT connector on a microcontroller

# To create I2C bus on specific pins

# import busio

# i2c = busio.I2C(board.SCL1, board.SDA1) # QT Py RP2040 STEMMA connector

# i2c = busio.I2C(board.GP1, board.GP0) # Pi Pico RP2040

while not i2c.try\_lock():

pass

try:

while True:

print(

"I2C addresses found:",

[hex(device\_address) for device\_address in i2c.scan()],

)

time.sleep(2)

finally: # unlock the i2c bus when ctrl-c'ing out of the loop

i2c.unlock()