emfcamp/badge-2024 Hexpansion EEPROM Recovery

If you have issues with a HexDrive, or for that matter any hexpansion fitted with an EEPROM, e.g. a software incompatibility with a particular badge software version, you can reset the EEPROM back to blank as follows:

- 1. Plug in the hexpansion to Slot 1 (will work with any slot but you have to change the "1" below to the slot number.
- 2. Connect your favourite Terminal program to the COM port presented by the Badge over USB.
- 3. Press "Ctrl" & "C" simultaneously. i.e. "Ctrl-C"
- 4. You should now be presented with a prompt ">>>" which is called the python REPL. At this type in the following lines (the HexDrive EEPROM is 8kbytes so requires 16 bit addressing, hence the addrsize=16 other hexpansions may use smaller EEPROMS where this is not required):

```
from machine import I2C
i = I2C(1)
i.writeto mem(0x50, 0, bytes([0xFF]*8192), addrsize=16)
```

5. As long as there is no Traceback then this worked. But you can check by reading back the EEPROM contents with:

```
i.readfrom_mem(0x50,0,32,addrsize=16)
```

You should get a response which confirms that the first 32 bytes have been reset back to 0xFF: