# Introduction to MicroPython

The quick version

## Who, me?

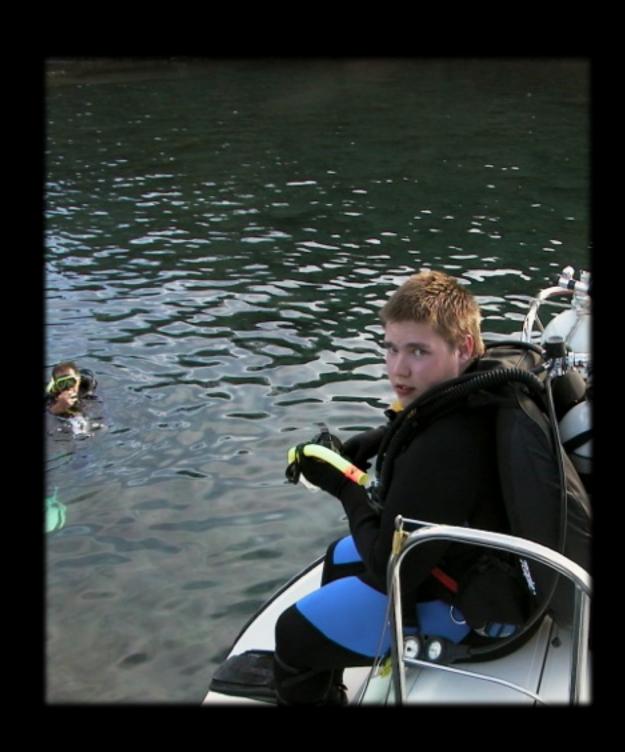
Electronics hobbyist since childhood

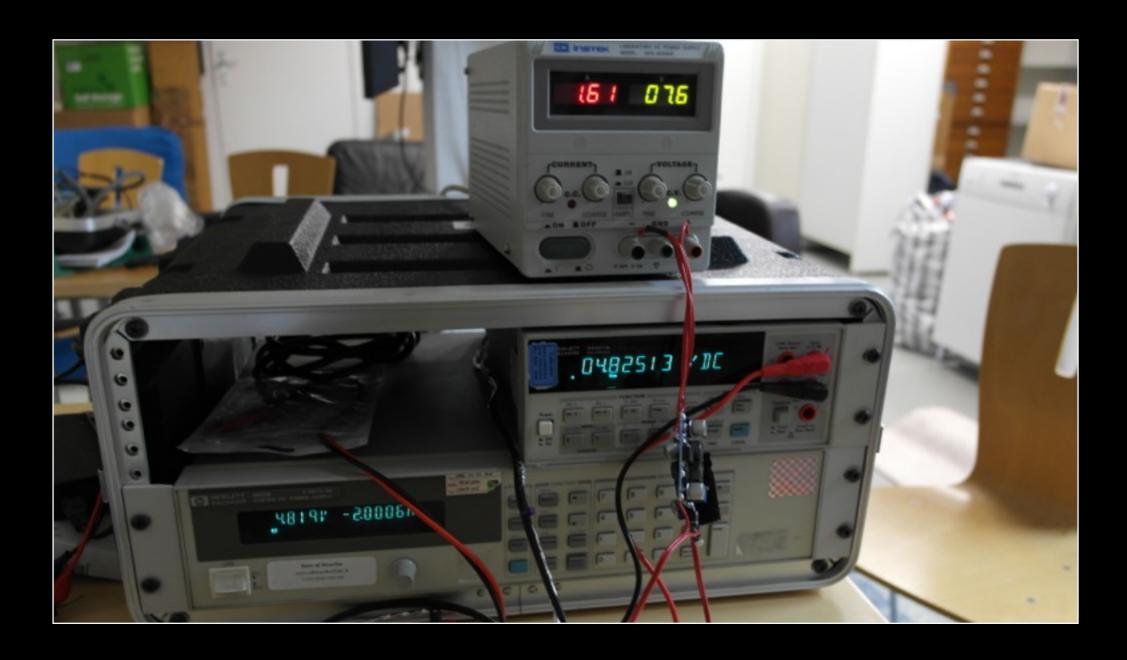
Active in Finlands hackerspace scene

**Believer**: Open Source & Open Hardware

https://github.com/rambo

http://fi.linkedin.com/in/eeroafheurlin/



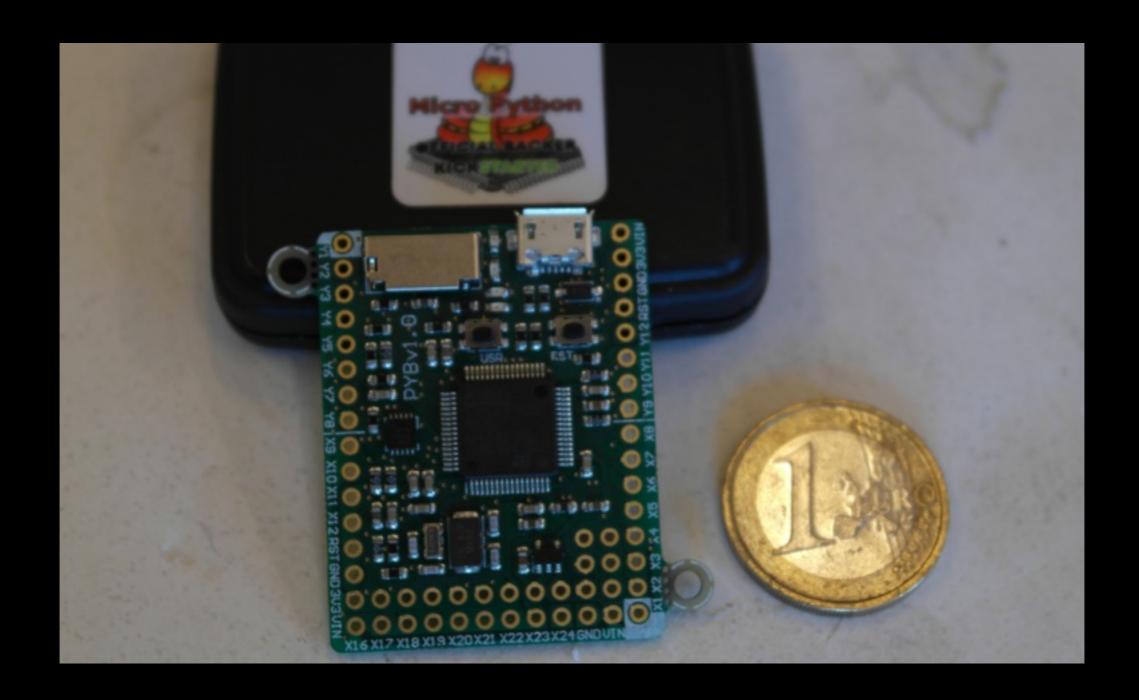


## Lets see some hands

Electronics, microcontrollers, Arduino, Discovery, Teensy, Nucleo, STM32, AVR

# Why u no C?

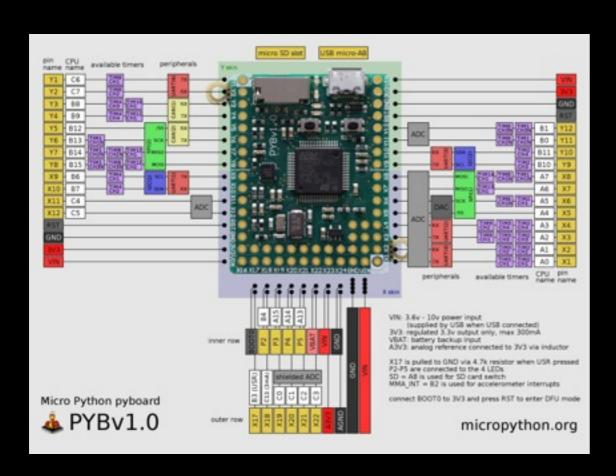
- Code, (re)compile, (re)flash, test, repeat
- Not exactly beginner friendly (even Arduino)
- For any debugging beyond print("foo") you're going to need extra hardware (JTAG/SWD)
- Python <3</li>



# Behold! The PyBoard!

Original Kickstarter V1

### Some details



- STM32F405
- 168MHz max clock speed
- Python 3 < 3
- USB serial for REPL, mass storage for code, can be HID too
- 4 Blinky LEDs onboard
- (micro)SD-Card slot (for even more code, or other resources)
- (can be) very power-efficient

#### Limitations

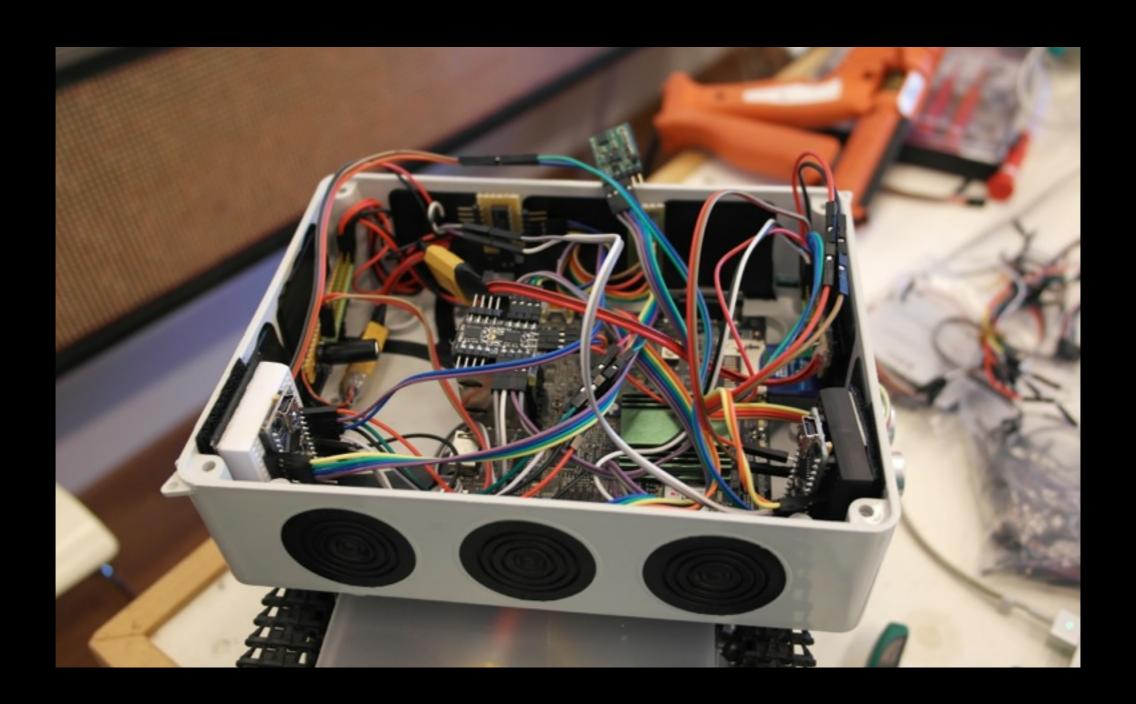
- Memory (obviously, the MCU as 192kB of RAM)
- Available libraries (pure Python ones will mostly work but might use too much RAM)
- No threading, time to brush up on those coroutine things

# Other platforms

- Ruuvitracker (on the right)
- Teensy 3.1
- ESP8266 & CC3200
- Unix (especially handy on low memory devices like VoCore)
- Your favourite 32bit ARM MCU platform?



# Demo (effect) time!



Questions?