Microcontroller comparison document-

Seeed Studio XIAO nRF52840

Teensy 4.1

Pros: Teensy

- Has better software support (open source OS prebuilt on GitHub)
- Has more RAM (2 banks 512k)
- Has a FPU
- Decent hardware documentation compared to Xiao

Cons: Teensy

- Overheating with the main chip
- More expensive ($29.60)
- Sometimes no USB communication

Pros: Xiao

- Onboard bluetooth support (good for comms)
- Cheaper ($9.90)

Cons: Xiao

- No open source OS (would have to build our own)
- Poor documentation compared to teensy

Winner:

Documentation on the teensy is better compared to xiao, and the support of an OS makes it a lot better to work with. We can overcome the lack of onboard wireless support by using an external module.