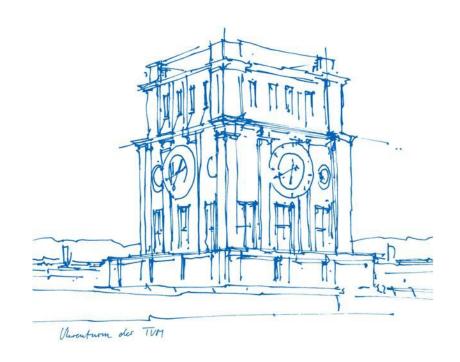


Mobile Solar Panels

Sprint 1

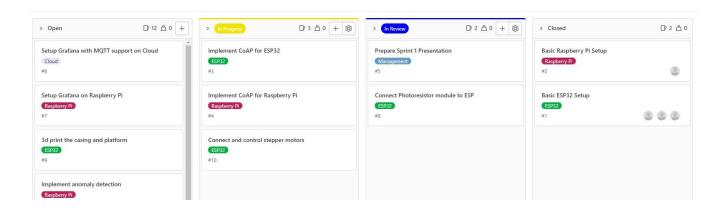
Eric Armbruster, Florian Freund, Sebastian Klinke Garching, 03.06.2022





Organization

Issues and Labels

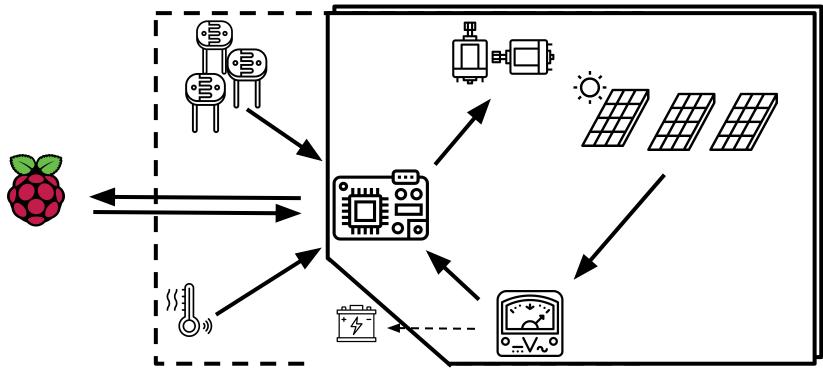


Milestones



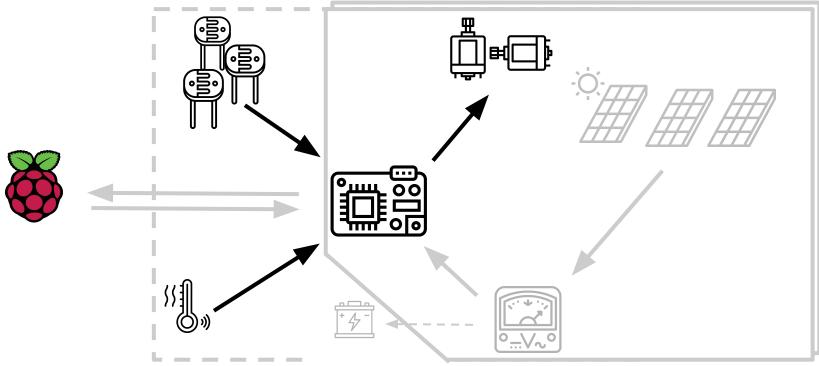


Setup





This Sprint





Espressif IDF

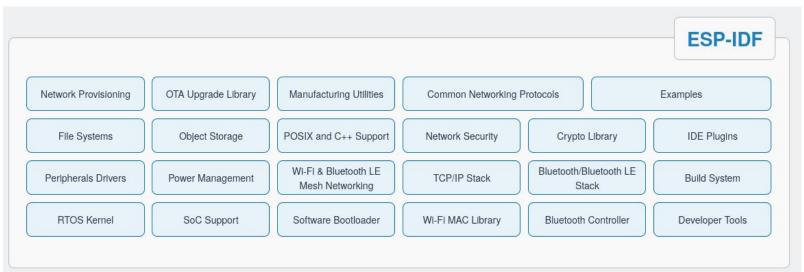
- IoT Development Framework from Espressif
- Full hardware support, RIOT does not support:
 - Multithreading
 - Bluetooth
 - Rust on ESP32
- Rust bindings
- Why Rust?
 - Memory safety guarantees at compile time
 - Same embedded cross-platform development like RIOT
 - It's cool 😎





Espressif IDF

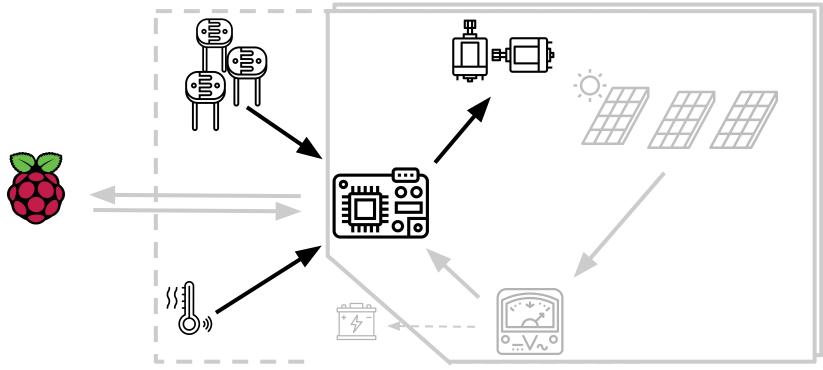




Source: https://www.espressif.com/en/products/sdks/esp-idf

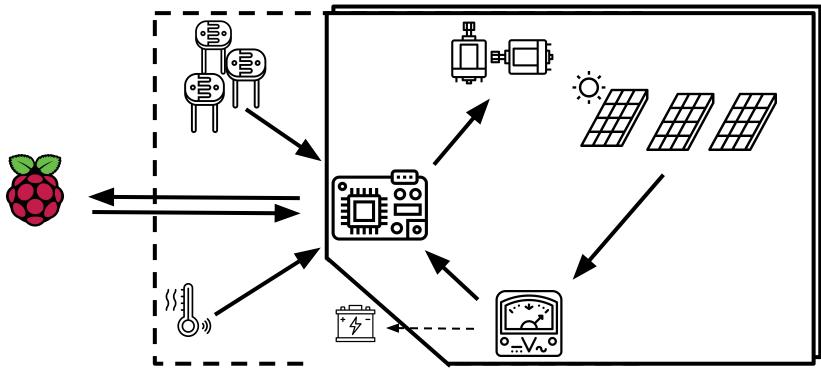


This Sprint





Next Sprint





Next Sprint

- 3D print platform and casing
- Implement CoAP on both ESP32 and Raspberry Pi
- Connect missing hardware (Solar panels, current and voltage sensor)
- Control platform rotation via photoresistor module



Feedback from Tutors

- Todo