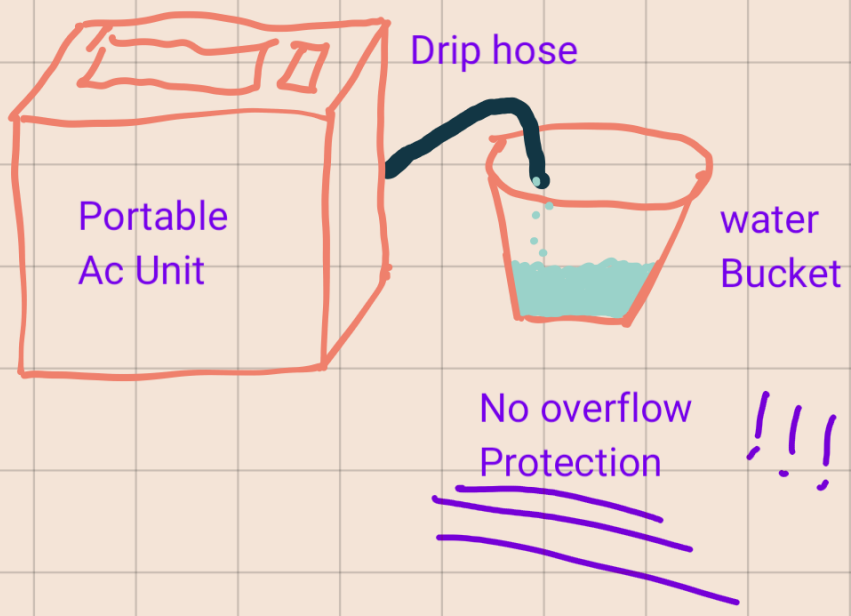
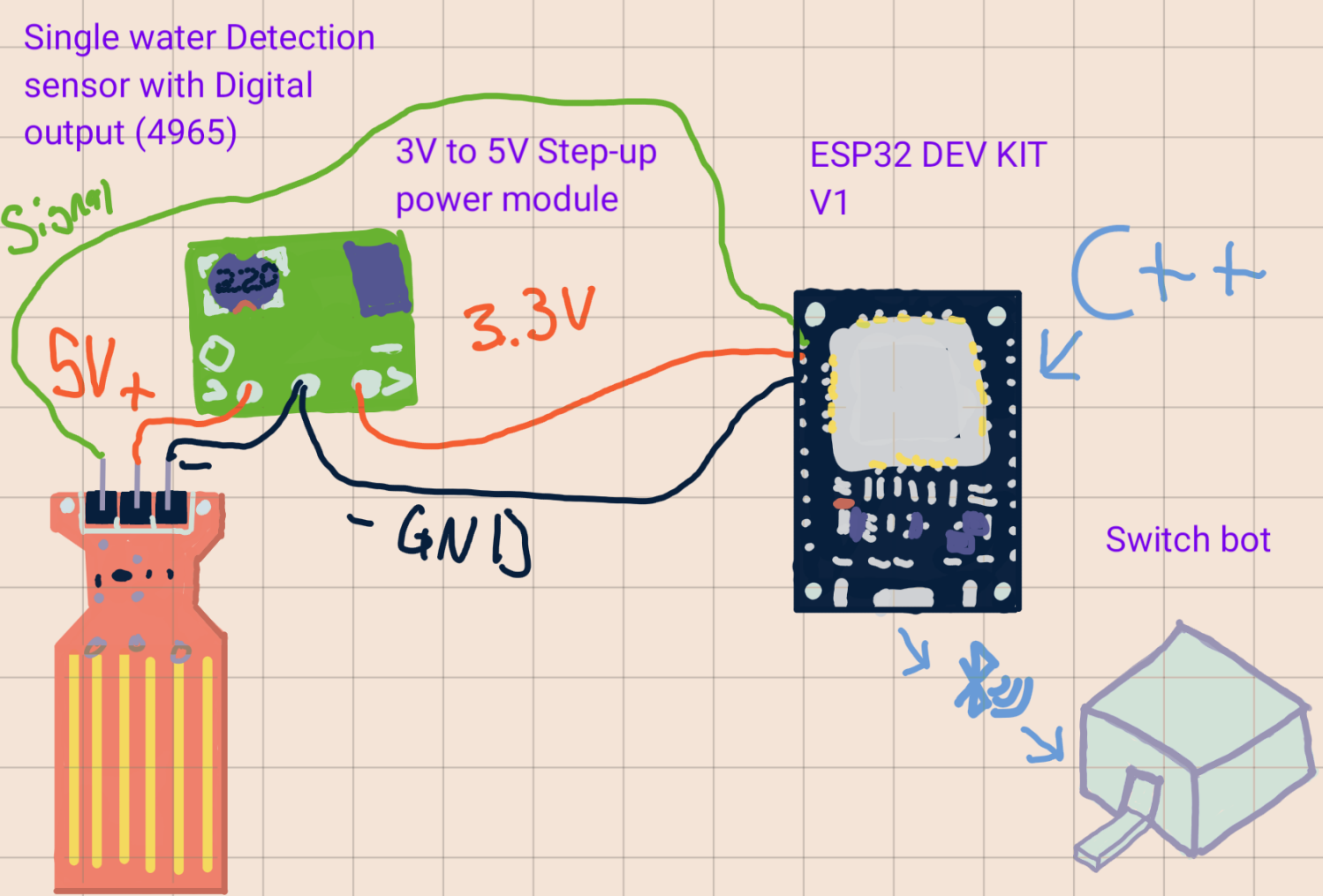
Problem: Sometimes the drip bucket overflows from the AC drip



Solution: Monitor Water Levels & turn off AC via bluetooth remote switch



The core of this project is the ESP32 Dev kitV1.

This microcontroller is wifi & bluetooth enabled and
runs a 32 bit architecture.
It also comes with a Strong community & solid dev ecosystem.

We'll be using the following dev tools:

- vscode + Platform IO IDE extension
- C++ with espressif arduino esp32 BLE library

SC

Switch Client

esp32/BLE lib

- Switch bot comms via BLE

WSCM

Water Sensor Control module

esp32/cores

- reads signal from sensor via GPIO

ED

Event Driver
- addHandler
- run

- Monitors for events and handles task execution
- FIFO queue based events.
- addHandler lets you define specific tasks to execute when an event occurs
- run executes the next task in the queue

1. Boot
2. ED created
3. WSCM created
4. WSCM adds handler to ED for HIGH signal from sensor
   - task:
     - 4.1. create SC
     - 4.2 signal SC