

Questions for 9/24 Client Meeting (to ask during that meeting)

- Mapbox vs Google Maps - are we okay to use mapbox?
 - Preference of Mapbox
- Highly Technical Specs/Reqs
 - What is the precision required?
 - Standard or metric units?
 - Both, option to switch between
 - GPS (feet, yard, inches)?
 - Feet
 - Flow Rate (GpM, tenth of GpM)?
 - Whatever the sensor allows
 - Flow Changes based off Nozzle position
 - Time (minute, second, millisecond)?
 - Whatever the sensor allows
 - Battery life (4-5 hours)?
 - Try to optimize for performance and proficiency
 - Meet Minimum REALISTIC times
 - Recharge capability (lifetime of battery, time to recharge)?
 - Whatever realistic capability with given hardware
 - Weatherproof/temperature
 - Based off given hardware
 - Synchronize data (sensors to phone, phone to cloud) (every second, millisecond)?
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- Phone - are we okay using iOS?
 - iOS, with Swift
 - X-code
 - Using Serverless or need a backend server? - AWS AppSync?
 - Smaller size, so starting with a serverless
 - AWS Free RTOS
- For hardware, what specifically can we get (model)? When?
 - Arduino - R3, Esp32 Dev Kit - Require Breadboard or Soldering, Possibly raspberry pi
 - Our Choice Between the 3
 - Set up time/way to get hardware
 - Digikey, adafruit
- Flow Sensor - will these fulfil what you are looking for, in terms of hardware requirements go?
 - <https://www.digikey.com/product-detail/en/seeed-technology-co-ltd/314150001/1597-1615-ND/5488169>
 - https://www.aliexpress.com/item/32950946167.html?spm=a2g0o.productlist.0.0.1e89ada2pLY2AG&algo_pvid=d03a6843-6324-4c51-8981-72bb5cea1ba0&algo_e

[xpid=d03a6843-6324-4c51-8981-72bb5cea1ba0-1&btsid=8d7195c4-7d5a-47d6-a6b2-12b3b4adb2cb&ws_ab_test=searchweb0_0,searchweb201602_5,searchweb201603_52](https://www.aliexpress.com/item/634339319.html?spm=a2g0o.productlist.0.0.1e89ada2pLY2AG&algo_pvid=3e53d76b-5be0-4f19-a32d-29ebe82308c4&algo_expid=3e53d76b-5be0-4f19-a32d-29ebe82308c4-2&btsid=94b7b07e-effc-4dcf-8747-e2911774df72&ws_ab_test=searchweb0_0,searchweb201602_5,searchweb201603_52)

- https://www.aliexpress.com/item/634339319.html?spm=a2g0o.productlist.0.0.1e89ada2pLY2AG&algo_pvid=3e53d76b-5be0-4f19-a32d-29ebe82308c4&algo_expid=3e53d76b-5be0-4f19-a32d-29ebe82308c4-2&btsid=94b7b07e-effc-4dcf-8747-e2911774df72&ws_ab_test=searchweb0_0,searchweb201602_5,searchweb201603_52
- https://www.aliexpress.com/item/32849747626.html?spm=a2g0o.productlist.0.0.1e89ada2pLY2AG&algo_pvid=3e53d76b-5be0-4f19-a32d-29ebe82308c4&algo_expid=3e53d76b-5be0-4f19-a32d-29ebe82308c4-4&btsid=94b7b07e-effc-4dcf-8747-e2911774df72&ws_ab_test=searchweb0_0,searchweb201602_5,searchweb201603_52
- GPS sensor
 - <https://www.adafruit.com/product/790> - 3m precision
 - <https://www.adafruit.com/product/3133> - 3m precision
 - <https://gis.stackexchange.com/questions/8650/measuring-accuracy-of-latitude-and-longitude>