

Meeting Minutes

Today's Meeting

Time: 3:30-4:30 Monday

Date: 3/22/2021

Agenda Writer: Clifford Galli

Recorder: Kim Huynh

Agenda:

- Recap of snapshot and design review
- Ordering Parts (Clifford List)
 - A.) Kim (Raspberry Pi)
 - B.) Suhail/Cliff (Power Supply)
 - C.) Abdul (Solar Panel)
 - D.) Kip/all (peripherals) - consider waterproof temp sensors, etc – brainstorm list of all potential sensors and order samples. Set up Visa card for project for Suhail to place orders (financial controls and budget).
- Update the flow chart.

[Senior Design Amazon List](#)

Next Week's Meeting

Time: 3:30-4:30 Monday

Date: 3/29/2021

Agenda Writer: Suhail

Recorder: Abdul

Minutes:

General Items

- Design review: have something functional for it, software or hardware. Like breadboard.
- Prepaid Visa card will be given to Suhail from Kip.
 - o \$150-200.
 - o Ask Suhail for any future purchases.
- May have some meetings during the summer if possible.
- Clifford has some guides for GPIO pin programming, so ask him if need help.
- Instead of using DAC, use Arduino for now.

Snapshot Review

- Questions were answered in Snapshot Questions document.
 - o Answers can be found there as well.
- Physical security may be potentially out of scope.
 - o Focus on portability so it can be locked up.
 - o It is up to user to secure device (security guard, fence, etc).
 - o Can try to integrate camera or motion sensor.
 - o Send text message alerts if something happens.
 - o If all fails during reviews, ask Kip to tell stories.
- Consider mounting solar panels externally.

Items Available from Lab/ Kip

- Sensors.
 - o Capacitor, humidity, temperature, water-proof soil sensors, etc.
 - o DH-11, possibly DH-22 (ideally).
- Possible DAC.
- Monitor for Pi.
- Relays.

Final Shopping List

- 37 pack of sensors.
- 25W Solar panel (New Power).
 - o Details and specifications can be found in Power Prices spreadsheet.
- 10 pack buck converters.
- Power supply.

For Next Meeting/ Other To-Do Items

- Flow chart will be worked on next meeting.
- Buy the battery next time.
- Suhail and Kim will pick up respective items from Kip in the lab during the usual class time.
 - o Card, sensors, monitor, etc.