

# Meeting Minutes

Begin time: 4:00  
End time: 5:00

Group: Winter Green

Attendees: Clifford Galli  
Suhail Alzuhairi

Abdul Alnounou  
Kim Huynh

Kip Sikes

Absent: \_\_\_\_\_

\_\_\_\_\_

cc: Dr. Hess

\_\_\_\_\_

Projected Cost
\$ 450

## AGENDA: Meeting subject/purpose:

1. Discuss project goals and delegation of sections-Clifford Galli
2. Brainstorm Ideas
3. Block diagram and ideas for the project.
  - a) **Grid** or **stand alone** -both
  - b) **Wireless** or stand alone
  - c) User setup - **TBD**
4. Decide on financial overview - **Kip has some spare electronics, can bankroll. Under \$70, \$200. Decide on important decisions soon, but for now TBD.**

## MINUTES: (CAPTURE MAIN POINTS FOR EACH AGENDA ITEM)

### 1.

Basic setup:

- Power source
  - o Abdul - Type of power source.
- Signals control, power conversion and supply
  - o Clifford - DC power supply and conversion.
  - o Suhail - Simulations.
- Control device/ systems
  - o Kim - Decide on controller type (pi, arduino).
- Peripherals (do at the end)
  - o Clifford wants to do enclosure, 3D printed.

### 2.

Things to consider:

- 24V-5V come out of source? AC relays?
- Predone package?
- Will hardware be assembled there on site? Send enclosure too?
- Power interruption for controller?

- Inverter off battery?
- AC-DC conversion.

Potential values:

- 5V DC
- 12V DC I/O
- 120V AC I/O

Potential sensors:

- Dh11 – temperature sensor
- Soil moisture, soil temperature sensors

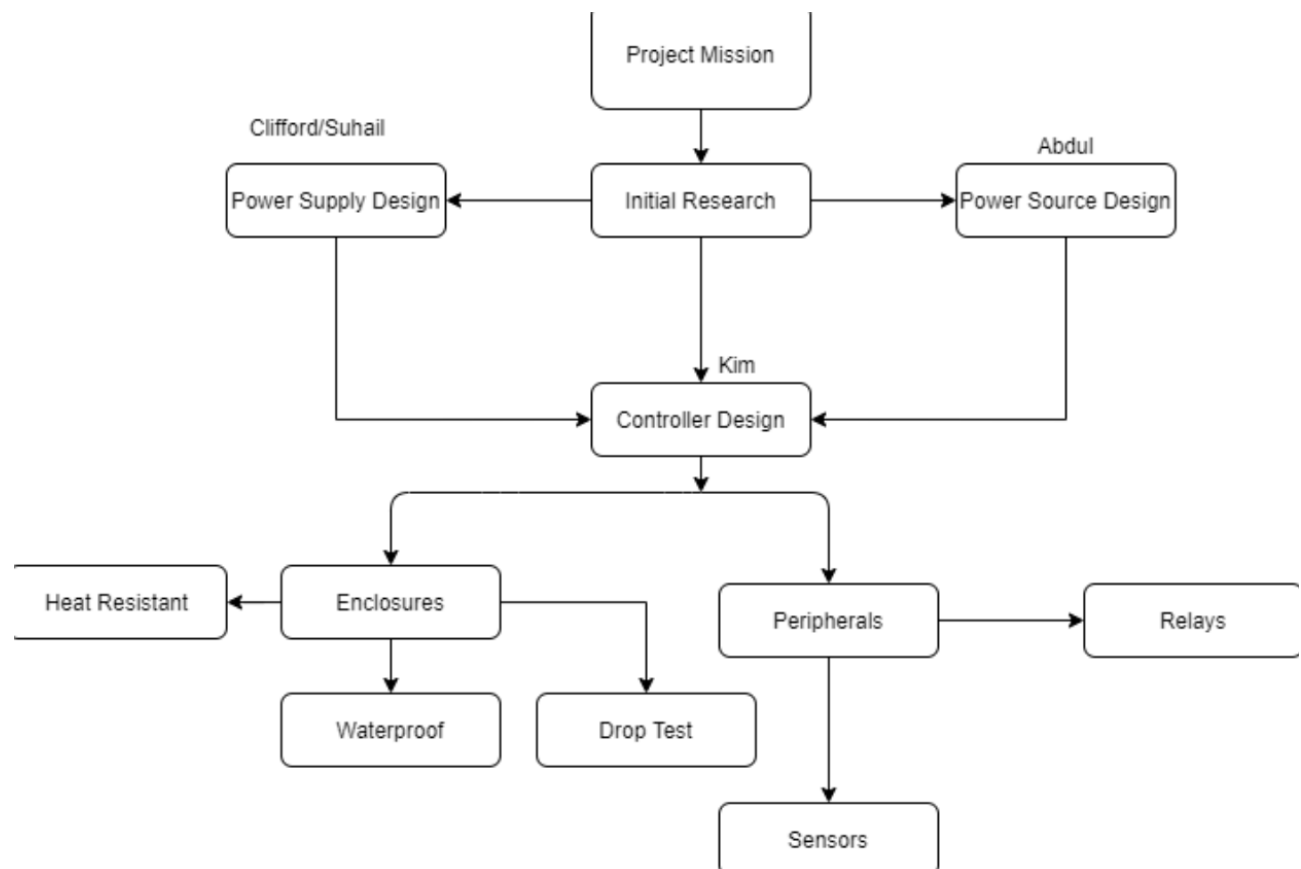
Starting actions:

- Start with AC supply.
- Start thinking about system integration.

Controller ideas:

- Interface pi with arduino.
- How high schoolers did auto startup: CSB file to read (use text editor to change parameters, sensors, turn on/ off). Config file basically.

3.



# Meeting Minutes

**ACTION ITEMS:(due date, who, what)**

- 2/22 Abdul Research power input source.
- 2/22 Kim Controller research.
- 2/22 Suhail Power supply research.
- 2/22 Clifford Power supply research.

**PARKING LOT ITEMS: (GOOD IDEAS TO INVESTIGATE OFF-LINE)**

**SEE ABOVE ACTION ITEMS.**

**NEXT MEETING AGENDA:** DATE: 2/22 TIME: 4pm LOCATION: Possibly BEL