**Power Distribution (Feb 5)**

* Power Generation -> inverter -> light bulbs
  + Voltage levels all accurate and devices powered
  + Capable of managing different loads/different combinations of loads
    - Max load rating
  + Monitor/manage heat dissipation
  + Monitor power drawn
  + Voltage Controlled switch functionality
  + Proper connections made with light socket
* Power Generation -> buck converter -> MCU & Sensors
  + Voltage levels all accurate and devices powered
  + Monitor/manage heat dissipation
  + Monitor power drawn

**Device Communication (Feb 12)**

* Power Generation Data -> MCU
  + Fuel Gauge data through I2C (battery Voltage level)
* MCU -> Firebase
  + https://randomnerdtutorials.com/esp32-firebase-realtime-database/
  + Fuel Gauge data to database
  + Toggle for light controls from Firebase to MCU
  + Status of lighting from MCU to Firebase

**System (Apr 9)**

* 3D print housing
  + Main box
  + Sensors
* Light bulbs
* Cables
* Cardboard boxes for “rooms”

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fahrettin

Deadlines

Hard deadlines for PCB reordering- Feb 5

Power Distribution Inverter Integration - Jan 29

Power Distribution Buck Converter Integration - Feb 5

MCU Sensor communication - Feb 19

MCU firebase communication - Feb 12

Fuel Gauge designed/built/bought - Feb 12

Fuel Gauge to MCU integration - Mar 5

Sensor housing - Apr 2

Product final form - Apr 9

Presentations

1. Jan 29
2. Feb 12
3. Feb 26
4. March 19
5. April 2
6. **April 16**