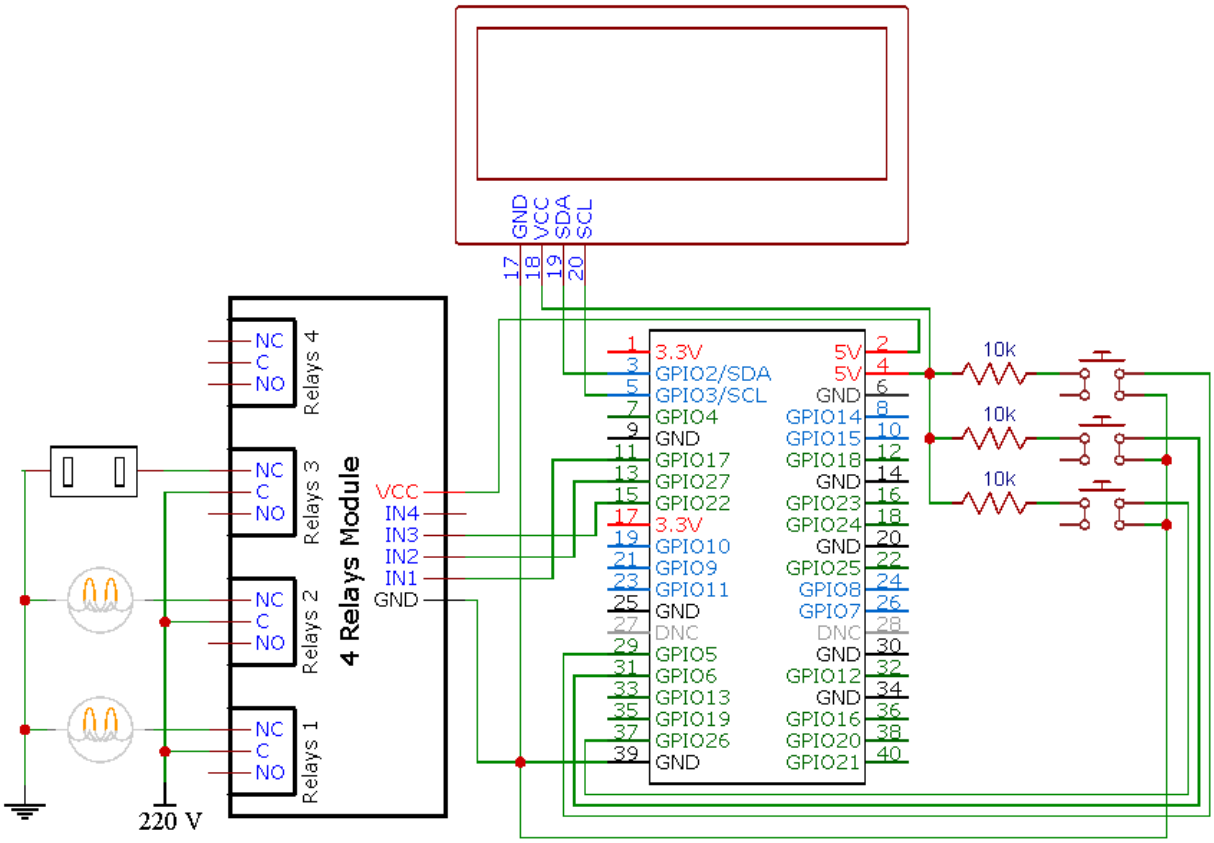
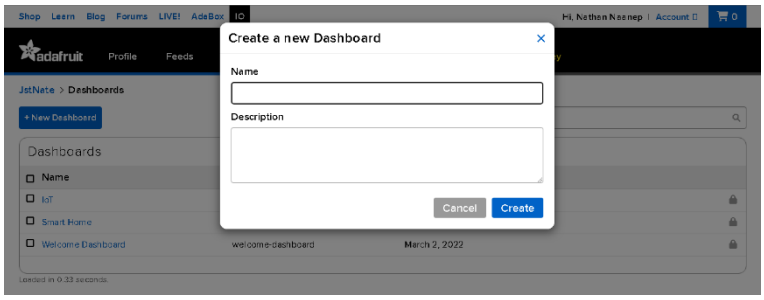
A. Schematic Diagram



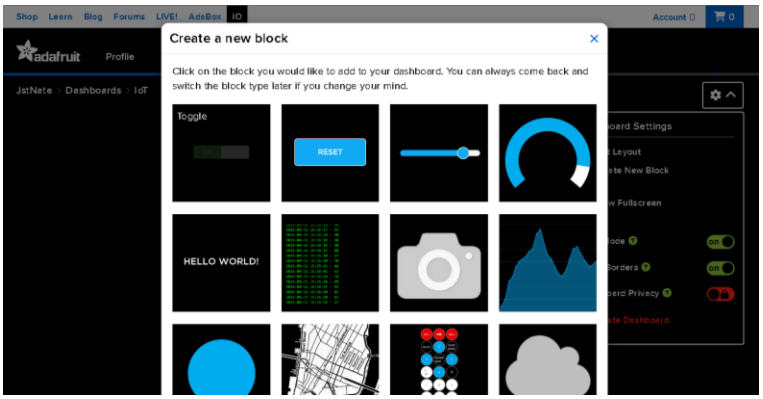
B. API Integration

a. Adafruit

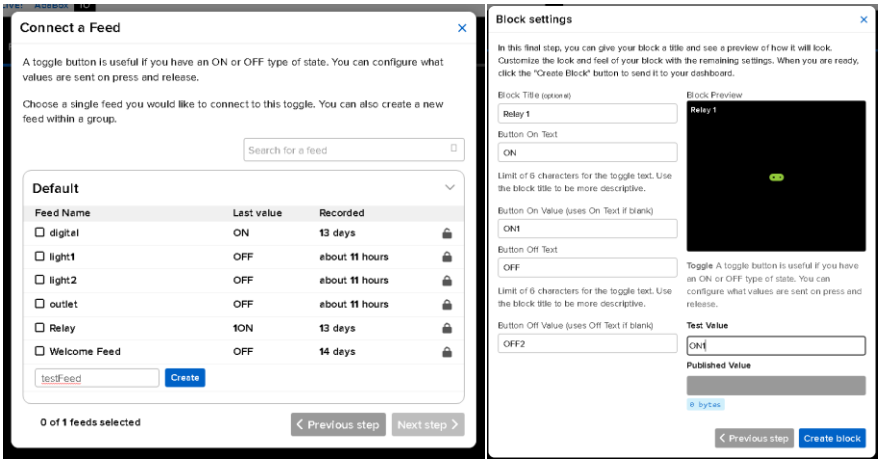
1. Log-in or create Adafruit Account and create dashboard at https://io.adafruit.com



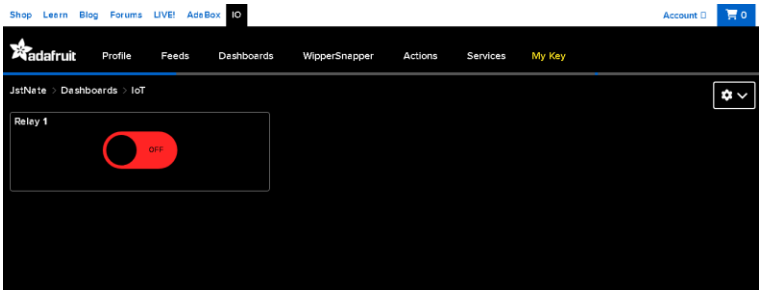
2. Insert toggle or preferred widget to the dashboard



3. Assign Feed and set the block setting

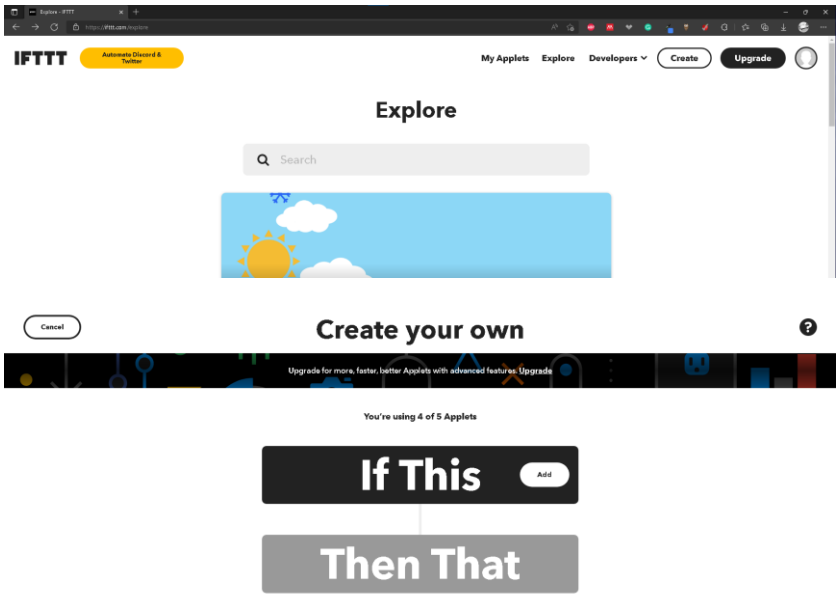


4. The block has been created

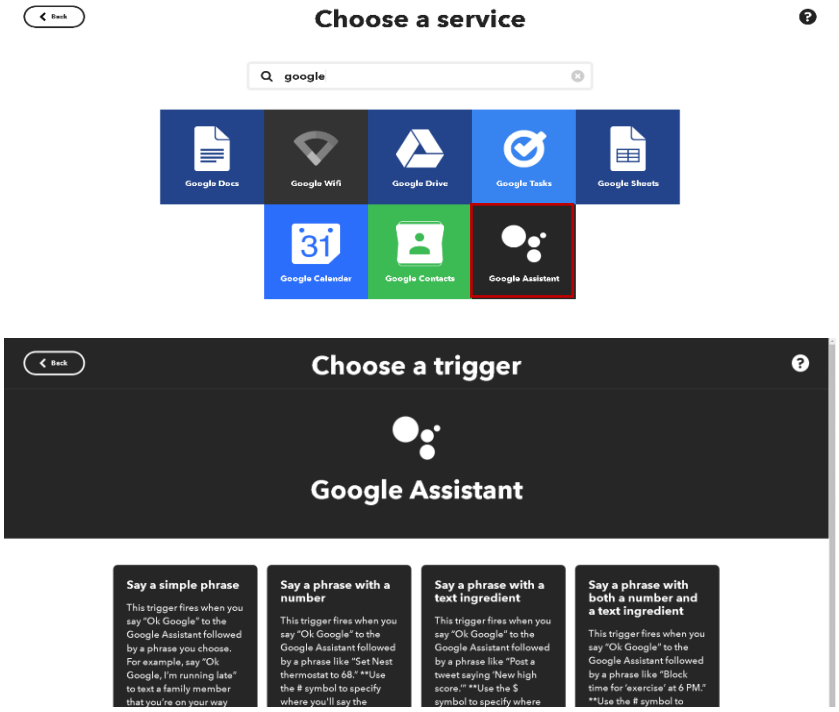


b. IFTTT

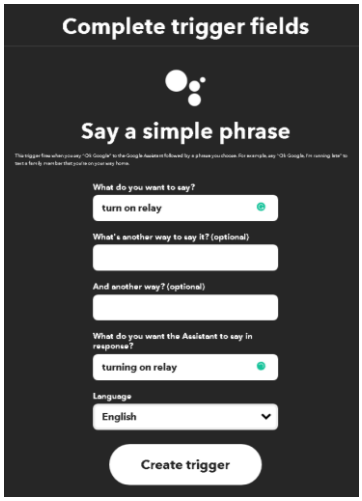
1. Log-in or create IFTTT account at https://ifttt.com/explore and create an Applet



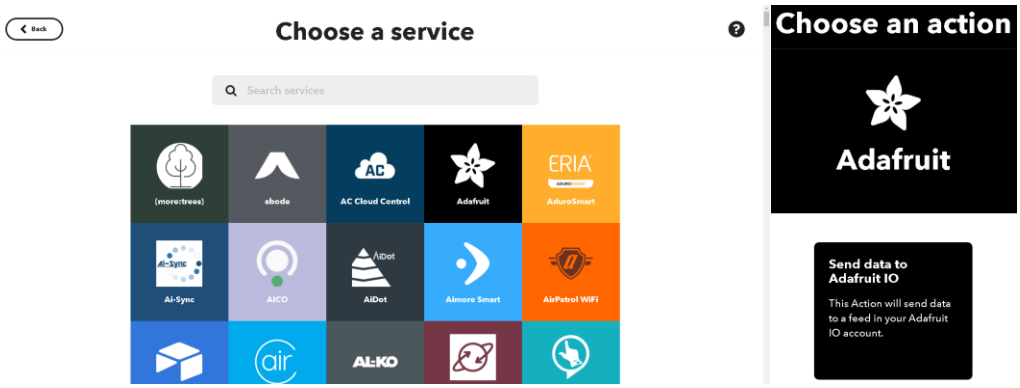
2. Assign the Google Assistant for If This and choose trigger



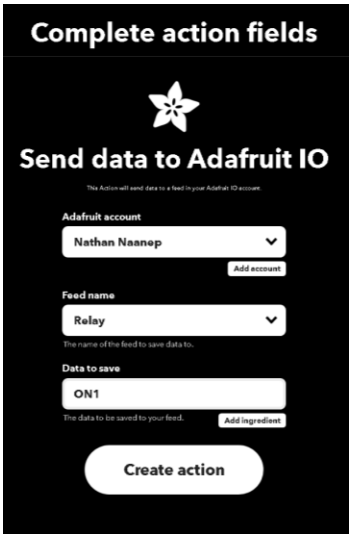
3. Complete the trigger field



4. Then select “Then That” and select Adafruit service and select “Send data to Adafruit IO”



5. Connect the Adafruit Account created earlier. Select the feed and set the value that “Data to save” to trigger the block in the Adafruit Dashboard



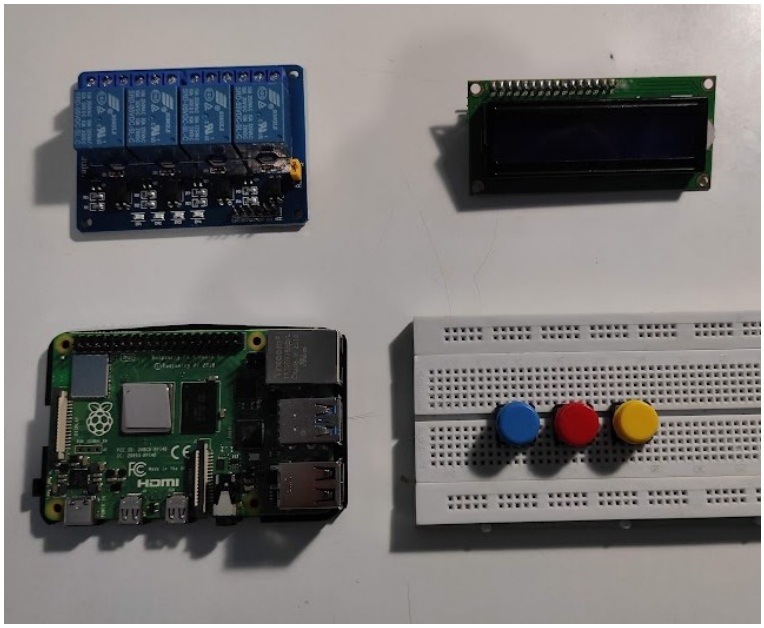
C. Hardware Requirements & Bill of materials

ITEM	QTY	COST
LCD I2C 16x2	1	₱ 112.00
Relay Module	1	₱ 159.00
Push Button	3	₱ 16.00
Resistor	3	₱ 20.00
Light Receptacle	2	₱ 100.00
Outlet	1	₱ 80.00
AC Wire	1	₱ 100.00
Electric Plug	1	₱ 70.00
Jumper Cable	Set	₱ 200.00
Raspberry Pi 3B Set	Set	Provided
Breadboard	1	₱ 49.00
TOTAL		**₱ 906.00**

D. Software requirements

- Thonny Python IDE
- Adafruit IO
- IFTTT
- Google Assistant

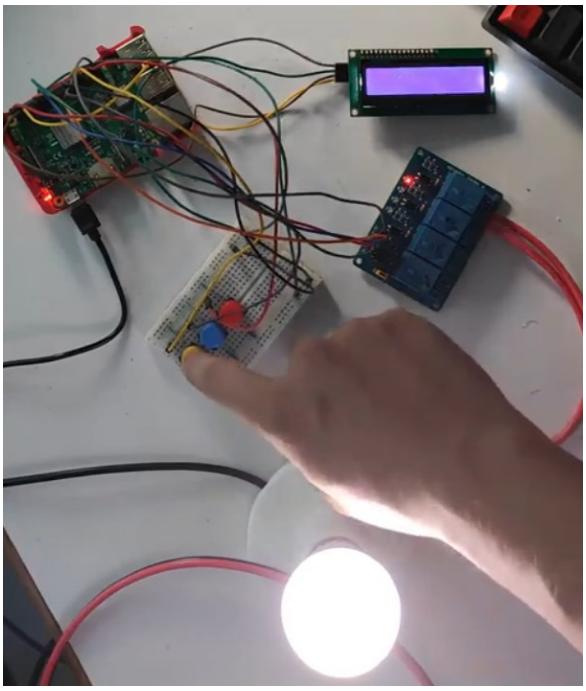
E. Project design



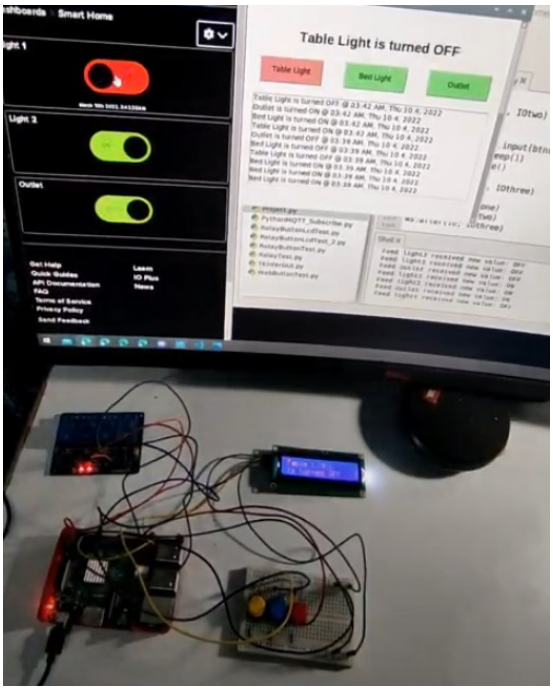
The initial component placement of the project

F. Project Progress Documentation

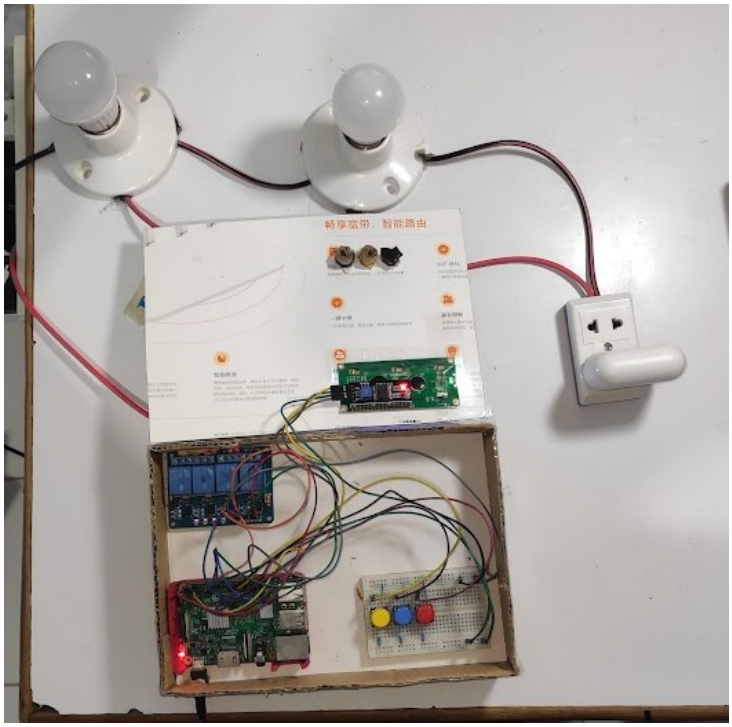
a. Project creation



GPIO connection and electrical circuitry

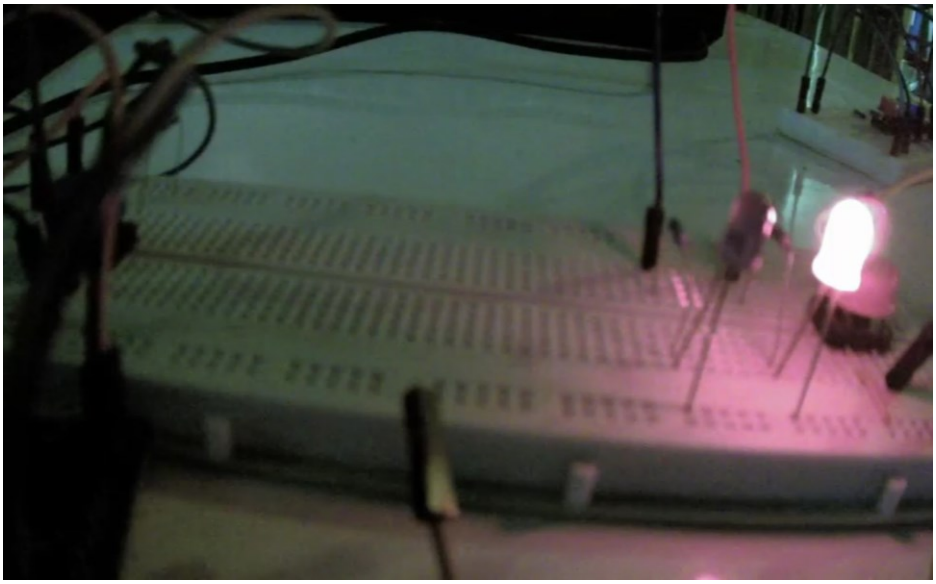


UI integration

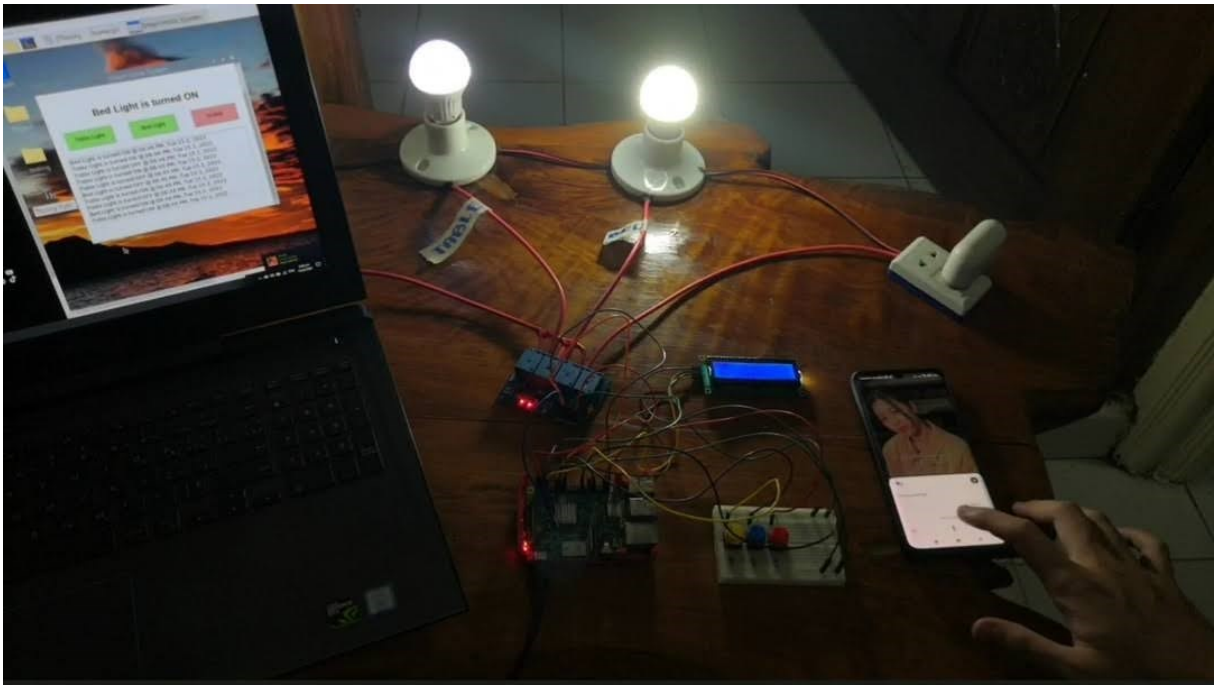


Enclosure Assembly

b. Project testing & debugging



Google assistant test using led



Components assembly and testing

c. Finished Project for Presentation