



# iHALO

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RECAP....

**iHALO**

**Intelligent Home Assistant & Lifeline Observer**

# RECAP....

## iHALO Band

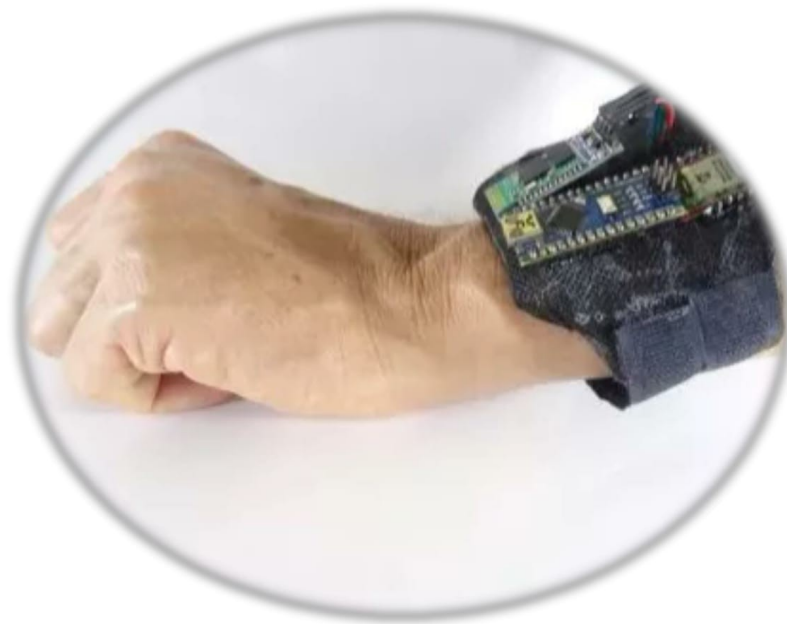
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### Hardware Requirements

1. Infineon DPS310
2. Arduino Nano
3. ESP 8266
4. 4v LiPo Battery
5. Jumper Wires

### Software Requirements

1. Arduino IDE
2. Blynk



# iHALO in Github

The screenshot shows the Github repository page for iHALOaec/iHALO. The browser address bar displays the URL <https://github.com/iHALOaec/iHALO>. The repository name is iHALOaec / iHALO, with 0 Watchers, 0 Stars, and 0 Forks. The main navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. The repository's main project is iHALO, with an Edit button. The repository statistics show 24 commits, 1 branch, 0 releases, and 1 contributor. The commit history table lists the following commits:

Commit	Author	Message	Time
5a68fd9	Anantha27	Update README.md	2 minutes ago
		Create readme	28 minutes ago
		Add files via upload	27 minutes ago
		Update iHaloband_Temp.ino	21 minutes ago
		Update README.md	2 minutes ago

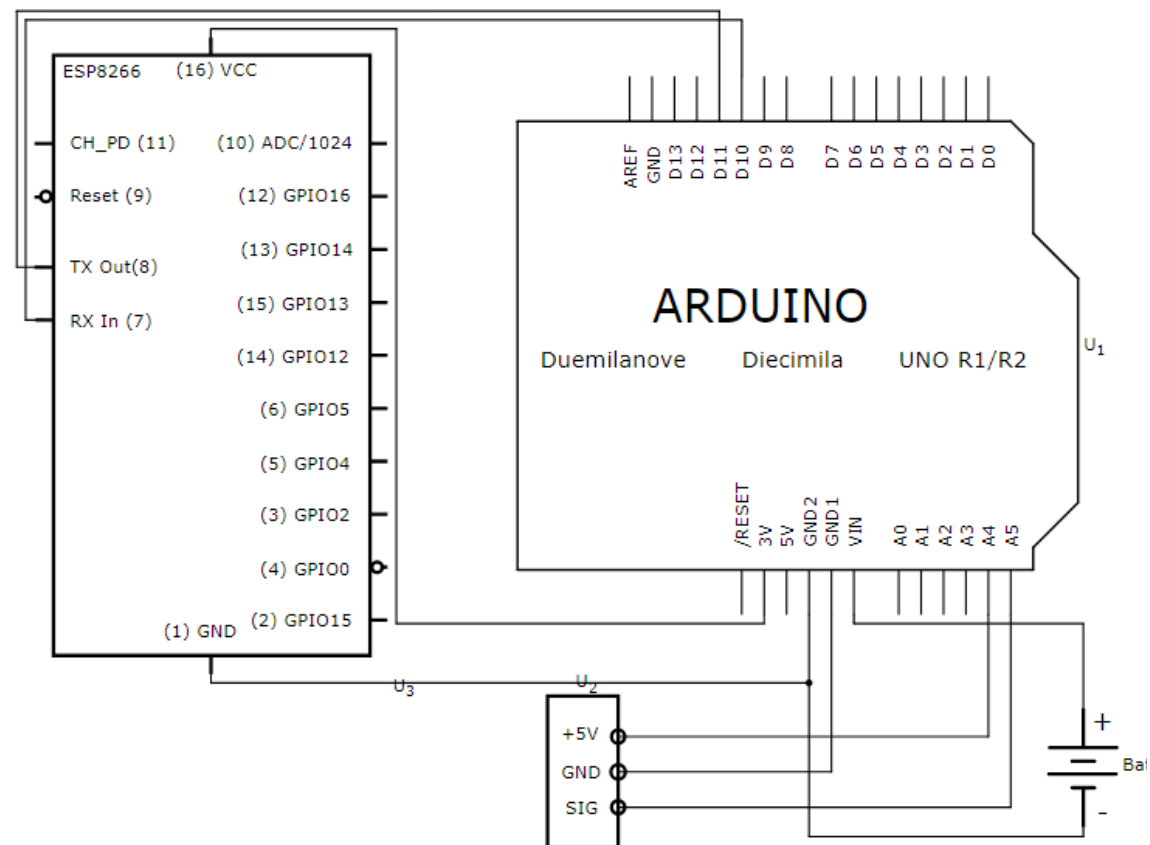
The README.md file is visible, showing the iHALO logo.

<https://github.com/iHALOaec>

# Circuit Diagram

≡ AUTODESK CIRCUITS

🔍 Search for designs, components or people



# Arduino C Code (Part 1)

sketch\_dec17a.ino

ReadMe.adoc

```
#define BLYNK_PRINT Serial
#include <ESP8266_Lib.h>
#include <BlynkSimpleShieldEsp8266.h>
// You should get Auth Token in the Blynk App.
// Go to the Project Settings (nut icon).
char auth[] = "42cb83cde6354c6a905ca0c0d2d26d3b"; //get thi frm ur app
char ssid[] = "Starcable"; // Your WiFi credentials.
char pass[] = "k03@d033"; // Set password to "" for open networks.
BlynkTimer timer;

#include <SoftwareSerial.h>
SoftwareSerial EspSerial(2, 3); // RX, TX
#define ESP8266_BAUD 9600 // Your ESP8266 baud rate:
ESP8266 wifi(&EspSerial);
void sendSensor()
{
  int val = analogRead(A0);
  float mv = ( val/1024.0)*5000; //mv stands for millivolts.
  float cel = mv/10; //10mv for per degree rise in temperature
  float farh = (cel*9)/5 + 32;
  Blynk.virtualWrite(V5, farh); //V5 is the virtual pin
}
void setup()
```

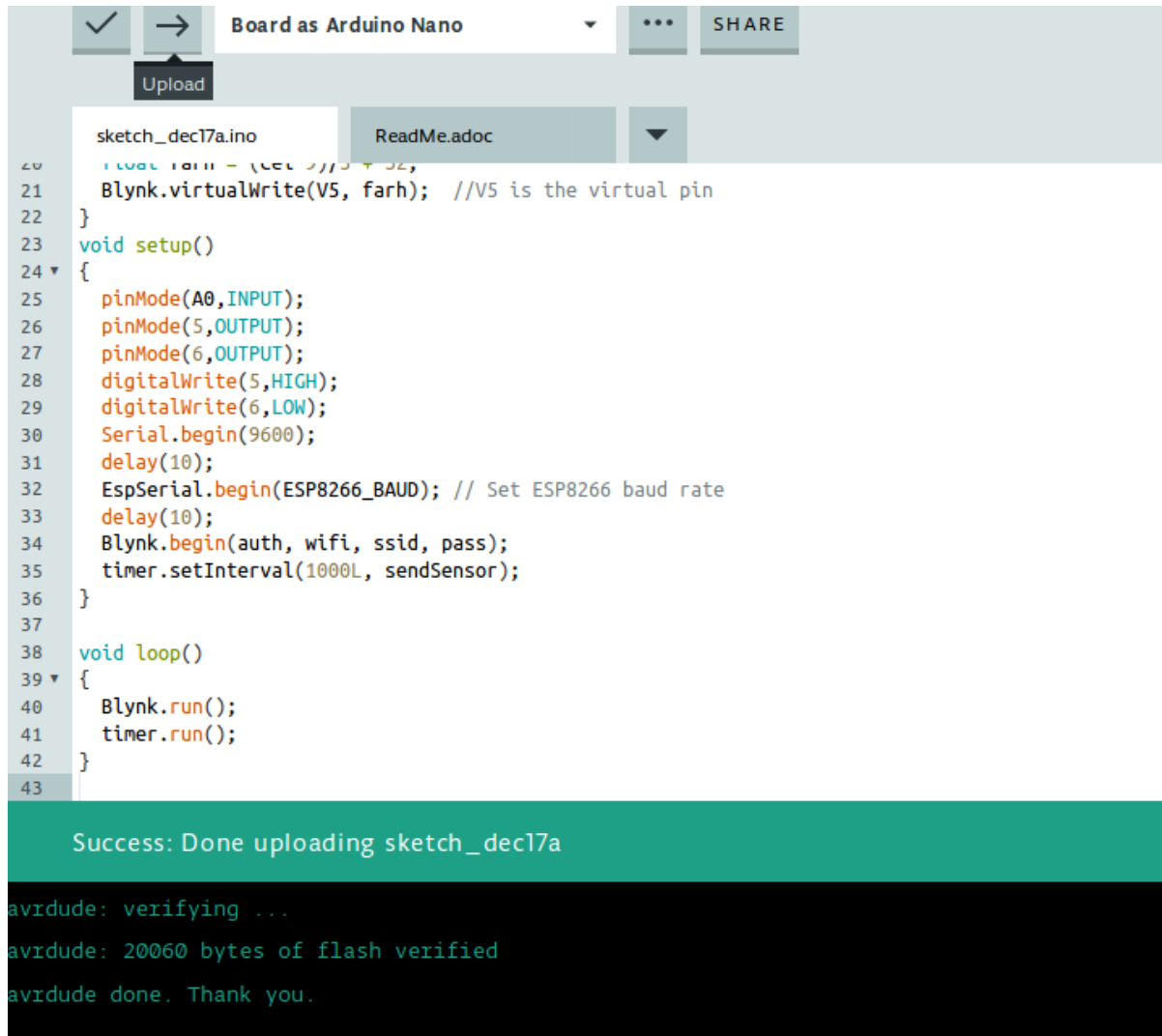
Success: Done verifying sketch\_dec17a

# Arduino C Code (Part 2)

```
sketch_dec17a.ino  ReadMe.adoc  ▼  
float farh = (cel * 9) / 5 + 32;  
  Blynk.virtualWrite(V5, farh); //V5 is the virtual pin  
}  
void setup()  
{  
  pinMode(A0, INPUT);  
  pinMode(5, OUTPUT);  
  pinMode(6, OUTPUT);  
  digitalWrite(5, HIGH);  
  digitalWrite(6, LOW);  
  Serial.begin(9600);  
  delay(10);  
  EspSerial.begin(ESP8266_BAUD); // Set ESP8266 baud rate  
  delay(10);  
  Blynk.begin(auth, wifi, ssid, pass);  
  timer.setInterval(1000L, sendSensor);  
}  
  
void loop()  
{  
  Blynk.run();  
  timer.run();  
}
```

Success: Done verifying sketch\_dec17a

# Uploading.....



Board as Arduino Nano

Upload

sketch\_dec17a.ino

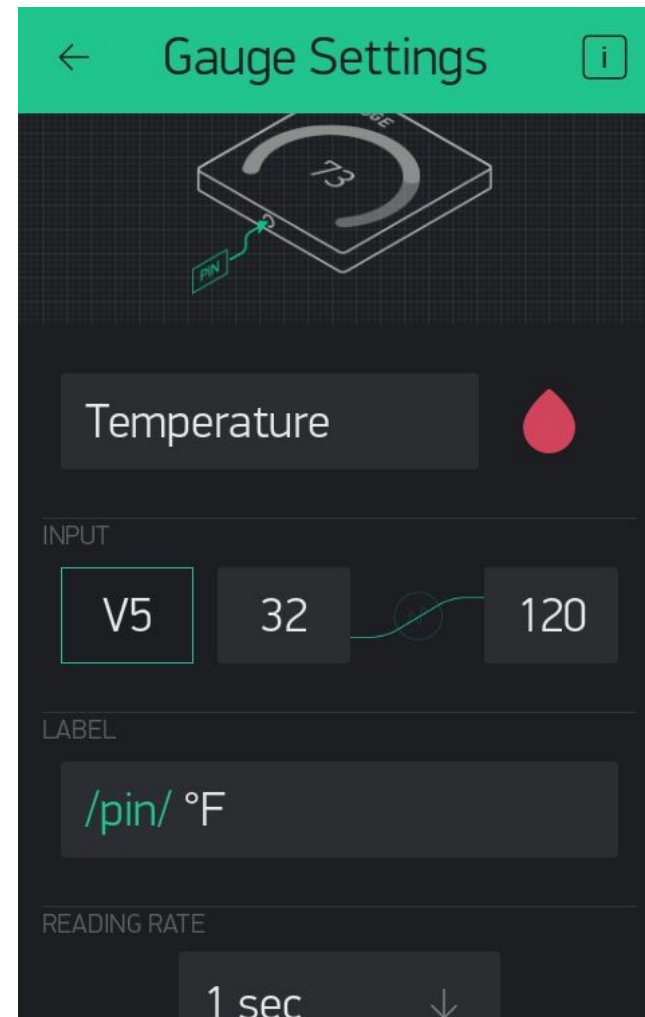
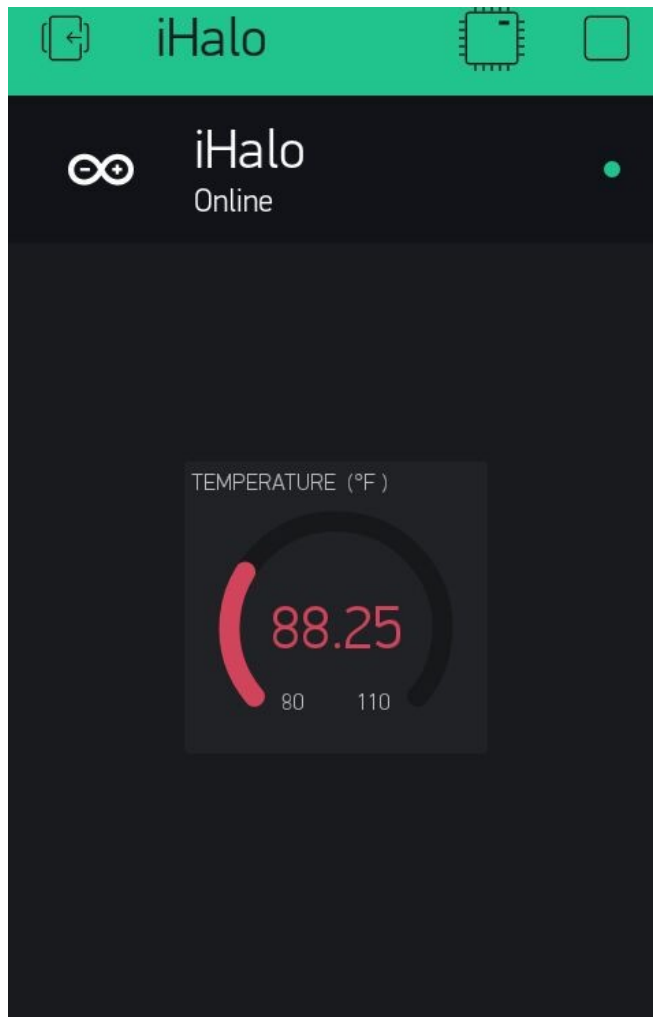
```
20 float farh = (getTemp() * 9.0) / 5.0 + 32.0;
21 Blynk.virtualWrite(V5, farh); //V5 is the virtual pin
22 }
23 void setup()
24 {
25   pinMode(A0, INPUT);
26   pinMode(5, OUTPUT);
27   pinMode(6, OUTPUT);
28   digitalWrite(5, HIGH);
29   digitalWrite(6, LOW);
30   Serial.begin(9600);
31   delay(10);
32   EspSerial.begin(ESP8266_BAUD); // Set ESP8266 baud rate
33   delay(10);
34   Blynk.begin(auth, wifi, ssid, pass);
35   timer.setInterval(1000L, sendSensor);
36 }
37
38 void loop()
39 {
40   Blynk.run();
41   timer.run();
42 }
43
```

Success: Done uploading sketch\_dec17a

```
avrdude: verifying ...
avrdude: 20060 bytes of flash verified
avrdude done. Thank you.
```



# Android Interface (iHalo Band)



**THANK YOU**