Resources:

[Using Amazon Alexa to Control Ameba Arduino](https://www.instructables.com/id/Using-Amazon-Alexa-to-Control-Ameba-Arduino/)

[Wise Shower driven by Alexa](https://www.hackster.io/virgilio-enrique-aray-arteaga/wise-shower-driven-by-alexa-skill-3ea1b6)

[Home Automation with Alexa](https://steemit.com/utopian-io/@habibrahad/home-automation-with-alexa-amazon-esp-project)

[How to Control an LED or Relay With Amazon Alexa and Echo Dot](https://maker.pro/arduino/projects/how-to-control-an-led-or-relay-with-amazon-alexa-echo)

^This is the one I am trying to get to run but the Fauxmo library is outdated

[DIY Home Automation with ALexa](http://www.themakersworkbench.com/tutorial/how-diy-home-automation-nodemcu-amazon-alexa)

[Amazon Alexa SmartHome using Node MCU](https://igniteinnovateideas.wordpress.com/2018/06/15/alexa-smart-home-using-node-mcu/)

[FauxmoESP](https://platformio.org/lib/show/1303/FauxmoESP)

Getting a bunch of memory errors

**/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Current Arduino Code\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/**

#include "Arduino.h"

#include <ESP8266WiFi.h>

#include "fauxmoESP.h"

#include "ESPAsyncWebServer.h"

#include "ESPAsyncTCP.h"

#include <Hash.h>

#define WIFI\_SSID "SmartShower" // Please Enter you Wifi name here

#define WIFI\_PASS "teamg" // Enter password here

#define SERIAL\_BAUDRATE 115200

fauxmoESP fauxmo;

#define RELAY\_PIN 5

const int buttonPin = 4; // the pin that the pushbutton is attached to

int buttonState = 0; // current state of the button

int lastButtonState = 0; // previous state of the button

// -----------------------------------------------------------------------------

// Wifi

// -----------------------------------------------------------------------------

void wifiSetup() {

// Set WIFI module to STA mode

WiFi.mode(WIFI\_STA);

// Connect

Serial.printf("[WIFI] Connecting to %s ", WIFI\_SSID);

WiFi.begin(WIFI\_SSID, WIFI\_PASS);

// Wait

while (WiFi.status() != WL\_CONNECTED) {

Serial.print(".");

delay(100);

}

Serial.println();

// Connected!

Serial.printf("[WIFI] STATION Mode, SSID: %s, IP address: %s\n", WiFi.SSID().c\_str(), WiFi.localIP().toString().c\_str());

}

void callback(unsigned char device\_id, const char \* device\_name, bool state){

Serial.print("Device "); Serial.print(device\_name);

Serial.print(" state: ");

if (state) {

Serial.println("ON");

digitalWrite(RELAY\_PIN, HIGH);

} else {

Serial.println("OFF");

digitalWrite(RELAY\_PIN, LOW);

}

}

void setup() {

pinMode(RELAY\_PIN, OUTPUT);

pinMode(buttonPin, INPUT\_PULLUP);

digitalWrite(RELAY\_PIN, LOW);

// Init serial port and clean garbage

Serial.begin(SERIAL\_BAUDRATE);

Serial.println("FauxMo demo sketch");

Serial.println("After connection, ask Alexa/Echo to 'turn <devicename> on' or 'off'");

// Wifi

wifiSetup();

// Fauxmo

fauxmo.addDevice("the light");

fauxmo.onMessage(callback);

}

void loop() {

fauxmo.handle();

// read the pushbutton input pin:

buttonState = digitalRead(buttonPin);

// compare the buttonState to its previous state

if (buttonState != lastButtonState) {

// if the state has changed, increment the counter

if (buttonState == LOW) {

Serial.println("on");

digitalWrite(RELAY\_PIN, HIGH);

}

else {

// if the current state is LOW then the button

// went from on to off:

Serial.println("off");

digitalWrite(RELAY\_PIN, LOW);

}

// Delay a little bit to avoid bouncing

delay(50);

}

// save the current state as the last state,

//for next time through the loop

lastButtonState = buttonState;

}

**/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/**