# Automatic Watering System With Blynk

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Hello everyone, I'll show you how to make yourself an automatic watering system for your plants with the help of an ESP32 WiFi microcontroller and Blynk App. It can be used to water your flowers when you're away from home or just to do the job for you. Check out the following steps and make your own flowers watering system.

**Supplies:**

- **ESP 32**
- **Mini water bucket or just cut a plastic bottle in half**
- **Jumper Wires**
- **Aquarium Hose**
- **5 Watt Power Supply**
- **5 Watt Relay**
- **Wires( for fixing the hose to the plant)**
- **5 Watt Water Pump**


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## Step 1: TEST YOUR COMPONENTS

Firstly test all of your components to check if they are working or not with a voltmeter

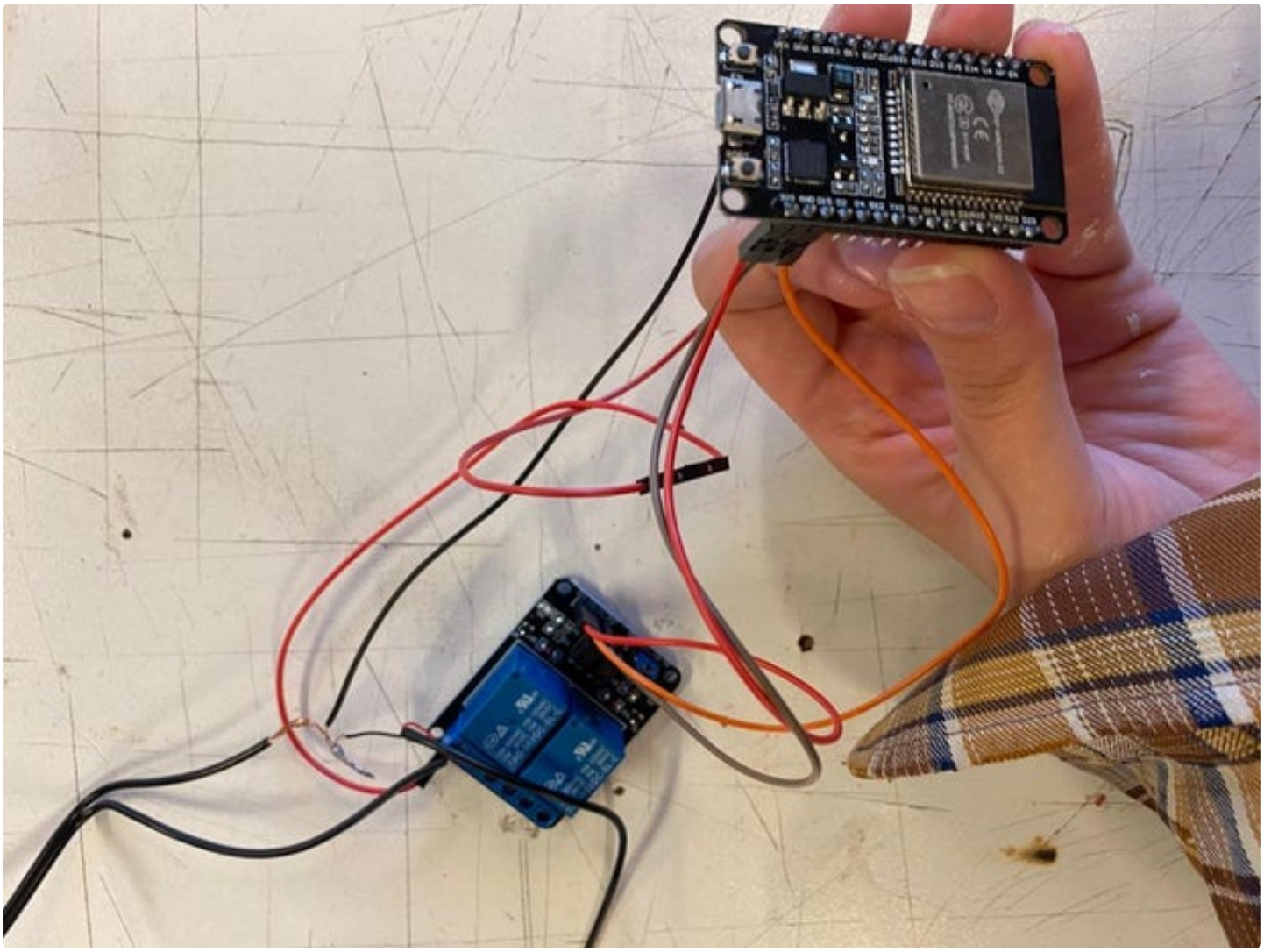
-Blink the internal led to make sure the ESP32 is working properly

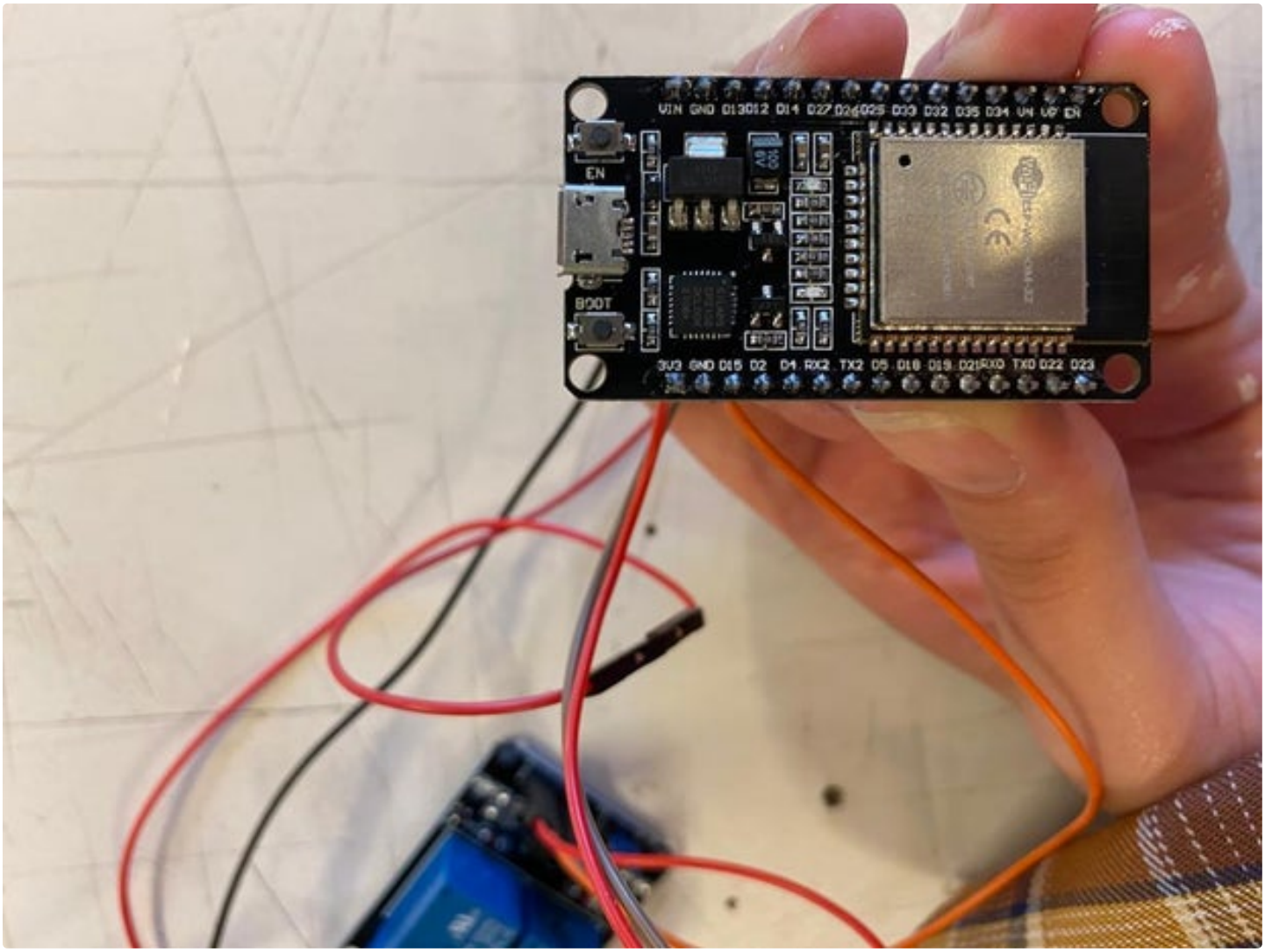
-Then try the pump and connect it to the adapter

## Step 2: ASSEMBLE

After all of this,

Then power the relay and connect it to the pump assemble all of the parts like I showed in the photos

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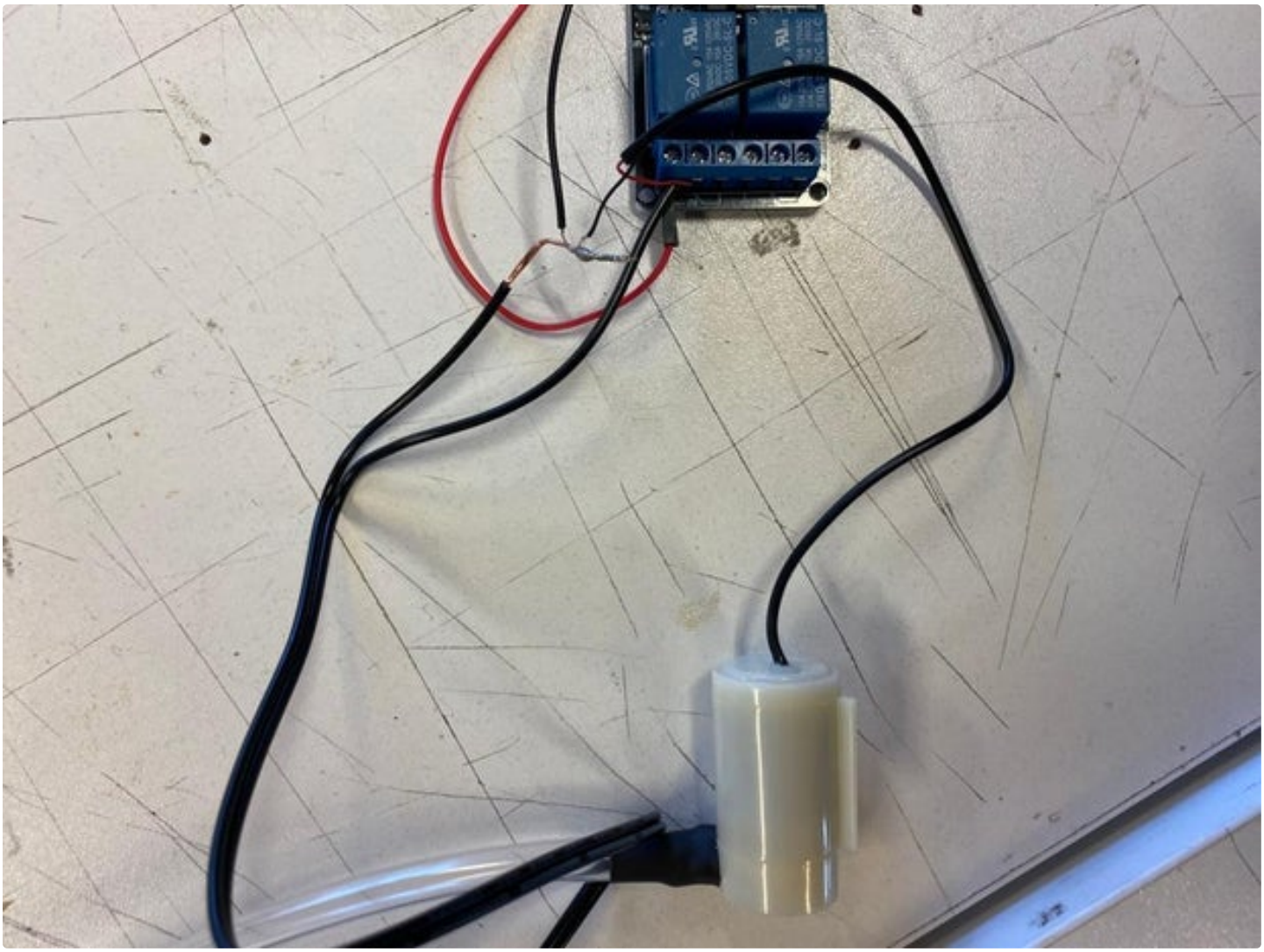
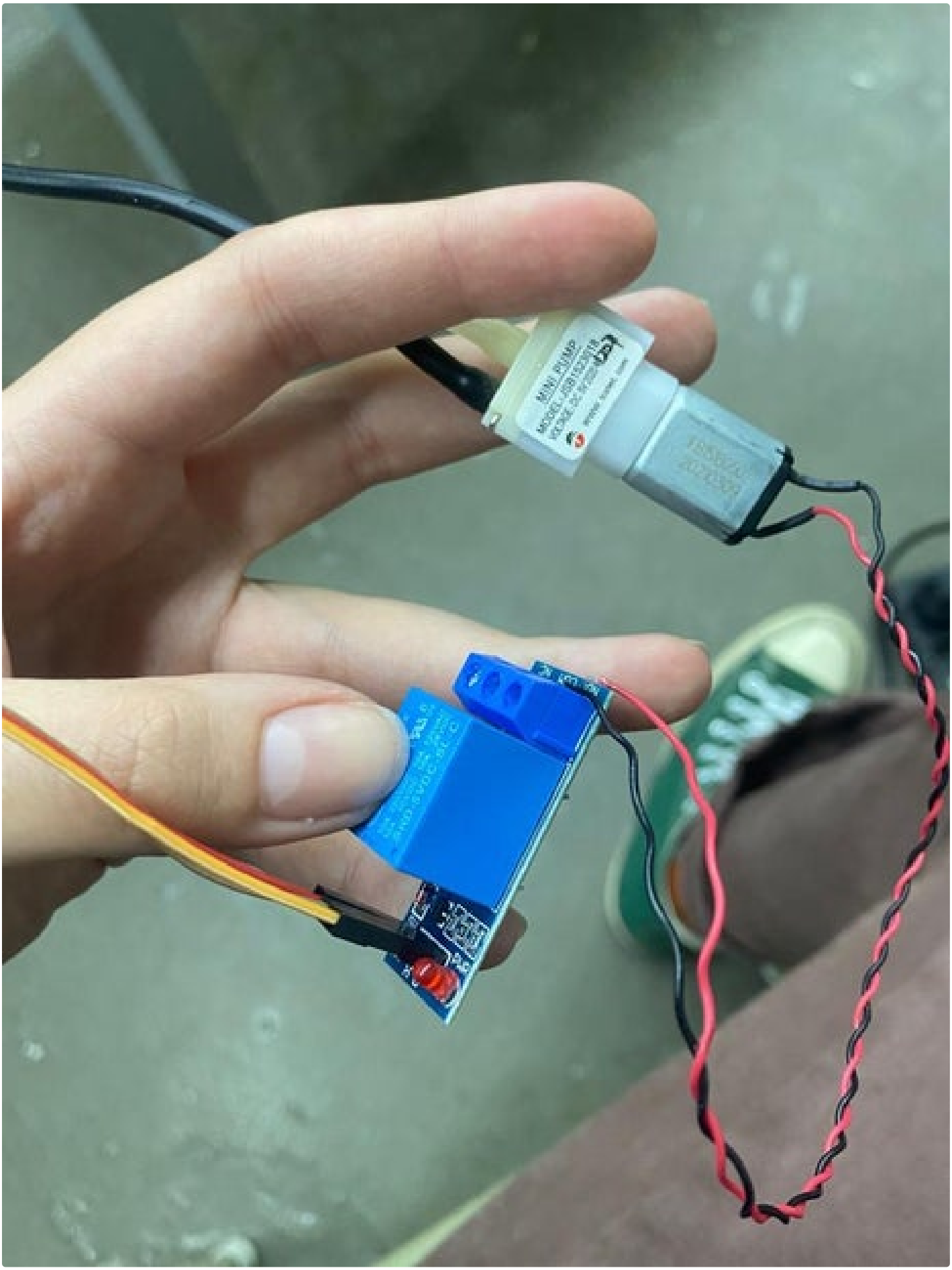
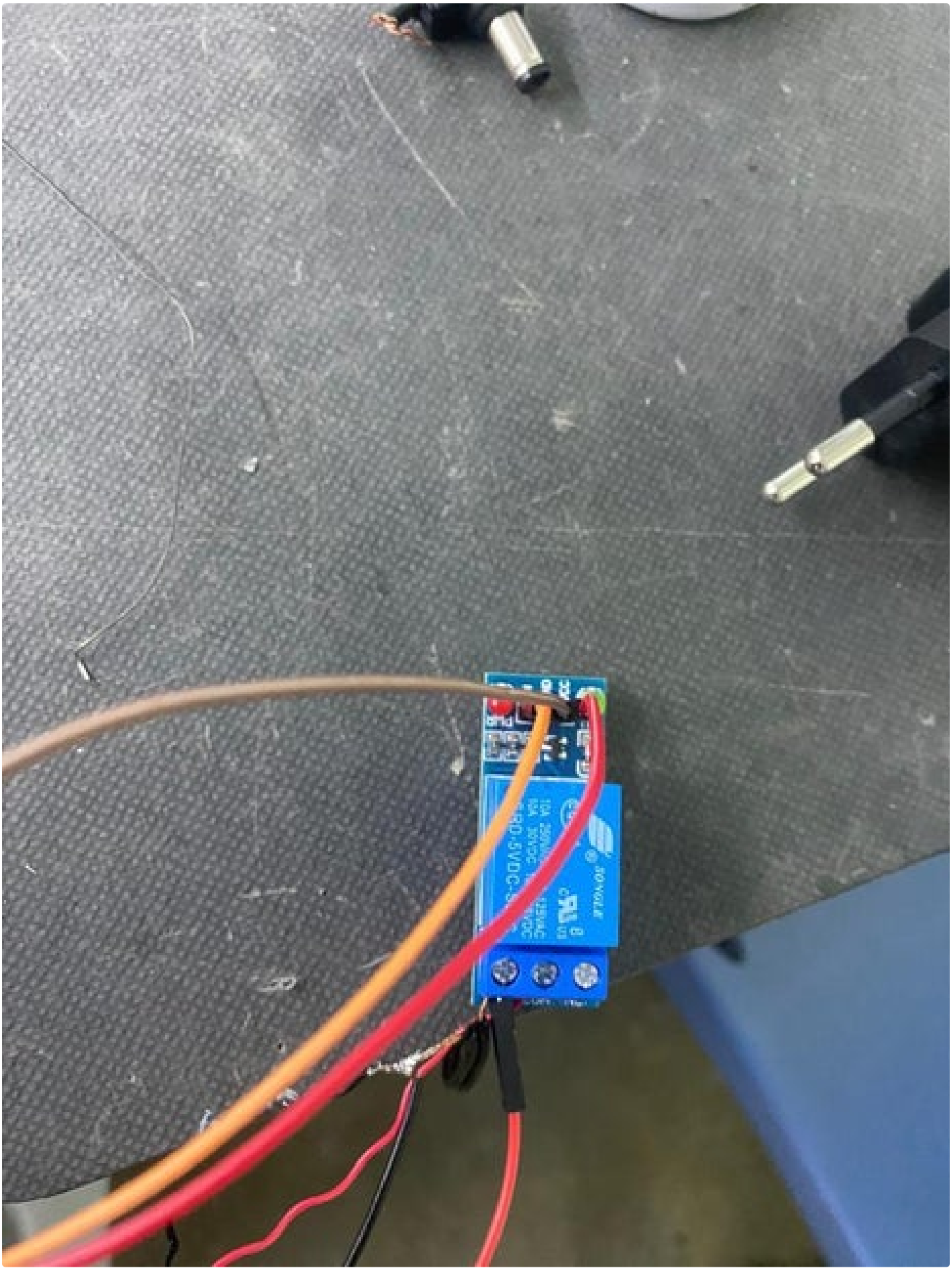
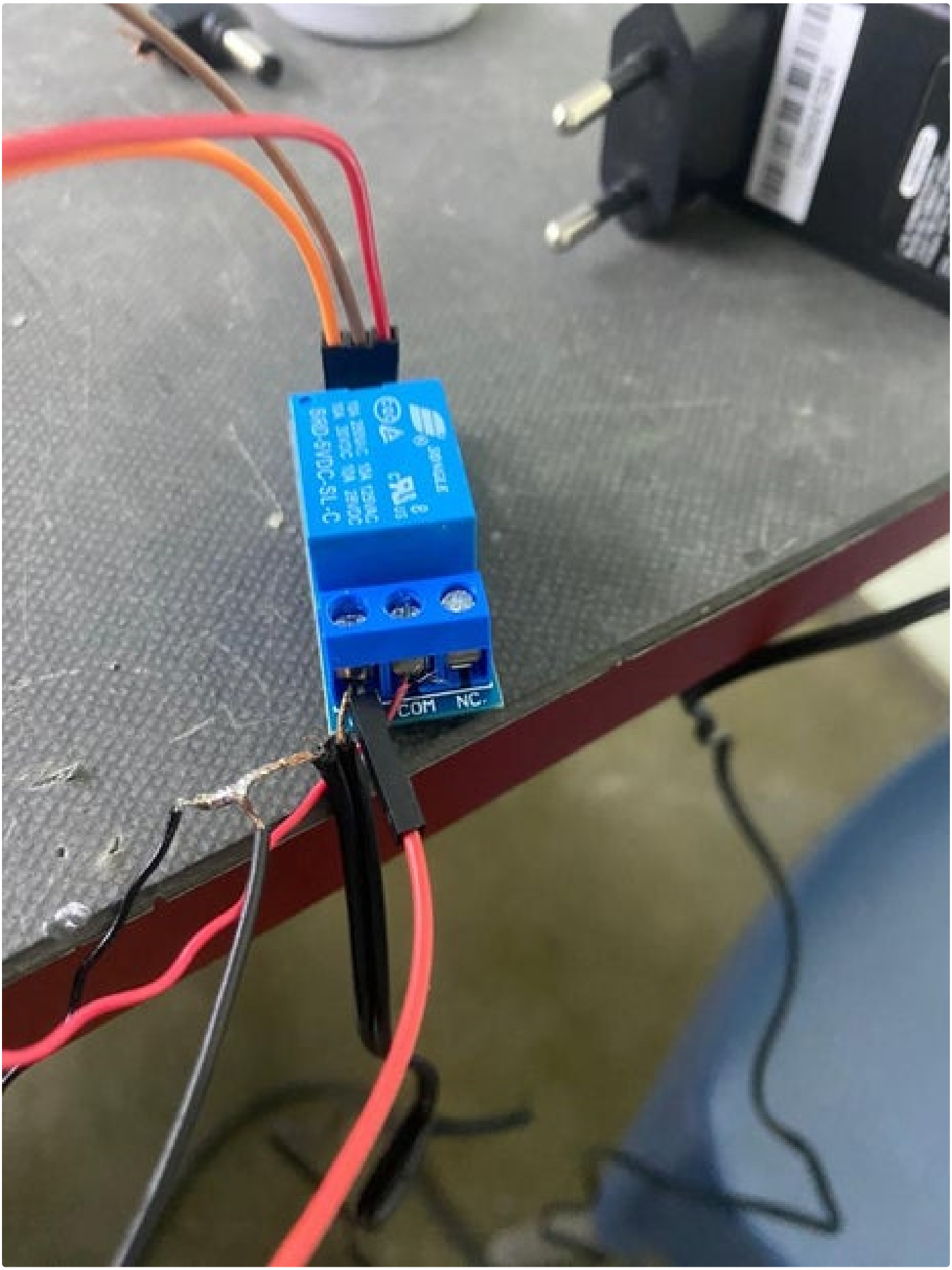



MINI PUMP

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## Step 3: CODE THE BOARD

First, make sure you have Arduino IDE on your computer. Here is a quick tutorial on how to setup Arduino IDE to work with your ESP Board if you haven't done it yet. Finally, we give the variable we pulled from blynk to the pump and complete the system.

Download

https://www.instructables.com/FZ0/Z0DO/LIOLQSX9/FZ0Z0DOLIOLQSX9.ino