

AC air conditioner control

My project is about to make an IoT device capable of controlling traditional AC air conditioner, since a lot of houses in middle east still using these appliances widely.

Requirements:

Arduino Uno board, wires, Wi-Fi shield, resistors, LED, PCB, soldering Iron, 3D printing box , smart phone

Approach:

In this project after I have done the experiments on the breadboard and make sure the code and electrical wiring is valid and working I have to connect all these components such as LED, resistors to a PCB board and doing the required soldering then design a 3D box to contain this PCB with Arduino microcontroller in addition to the Wi-Fi shield then I have to connect this circuit to AC outlet and handle the box on a safe place in the wall after that I have to make an application for smart phone to control these equipment remotely.

