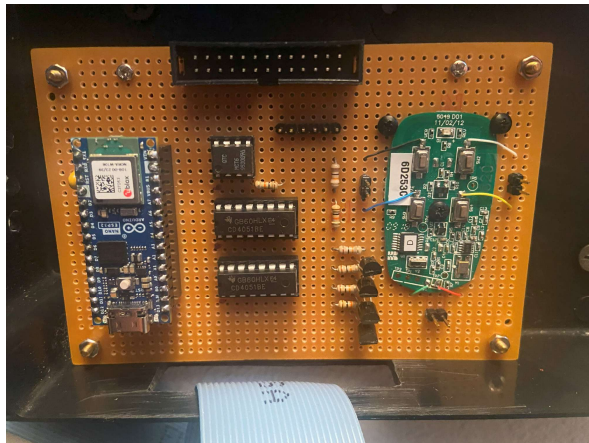


Remote Control iPhone App for DSC Impassa Home Alarm System

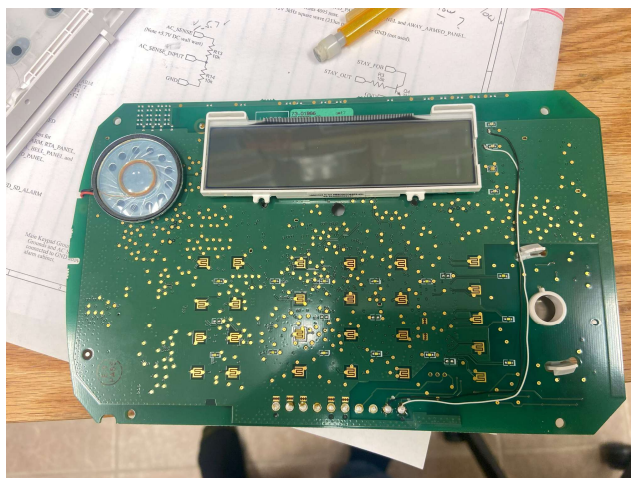
This Arduino Nano-ESP32 based application allows the user to control certain functions of an Impassa Home Alarm System remotely with the user's iPhone. Primary functions include, arming, disarming and alarm monitoring, and monitoring wired alarm zones connected through a RE508X translator. The application can also be configured to monitor networked smoke detectors.

Arm and disarm functions operate through a key fob board mounted to the next to the Nano-ESP32.



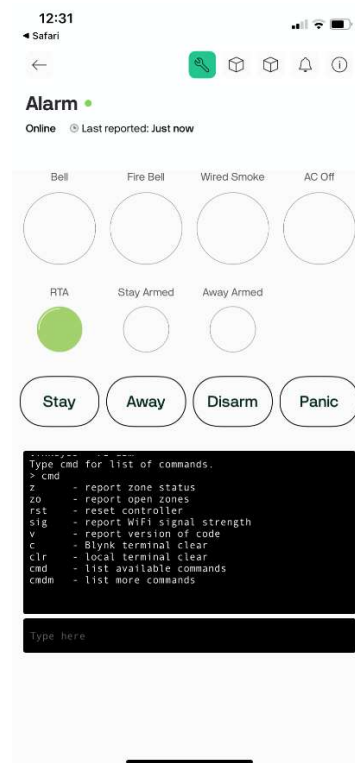
The application uses the two Impassa program outputs for Away Armed State and Bell State. The user will need the alarm installer code to program these. The application also uses two led outputs to show ready to arm and armed/arming.

The two led outputs were connected to the alternate communication screw terminals as shown below. The traces to these terminals were cut near the terminals with a drill bit to enable their redirection. These could also be hooked up with wire connectors to avoid any trace cutting.



The iPhone uses the Blynk app to send and receive messages to the Nano-ESP32. The Nano-ESP32 sends alerts and emails to the iPhone through the Blynk app in the event of an alarm.

Screen shots from the Blynk app are below.



Unfortunately, Blynk is not supporting new makers on its app right now, but I believe this program could be modified to work with the Aurduino Cloud IOT and its messenger, button and led widgets.

Happy to answer any questions.

Another project I am almost finished with is using two nano-ESP32s with a WT5500 keypad and the Blynk app to view the alarm system's LCD display and control the system's keypad. This app will have its own virtual lcd display and keypad. I will post this shortly.

