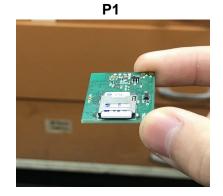
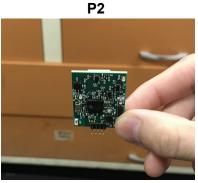
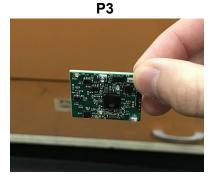
- 1. Clone estar-lab/mtag2-dev branch 'verification' to get the firmware
 - o git@github.com:estar-lab/mtag2-dev.git
 - https://github.com/estar-lab/mtag2-dev.git
- 2. Open the project in PlatformIO
 - In src/main.cpp make sure that OPERATING_MODE is set to 5 (as of 8/18/24 this is line 46)
 - Flash the project to the board
- 3. If there is a blinking blue LED, the code is running correctly
- 4. Hold the board in P1, P2, and P3 for 5 seconds each in order
 - To avoid any complicated battery stuff just use USB power. The cable here is not attached to declutter the pictures
 - o The point of this is just to hit all of the axes on the accelerometer







- 5. Depower the board and take out the SD card
- 6. The firmware writes files to the SD card numbering them from 1-255 and then wraps back around to 1. Usually I clear the SD card when you start having a lot of files, so it's pretty easy to find the correct data file. The data will only be in one file.
- 7. Clone estar-lab/tysons-tag-analysis-toolbox to get the data processing script
 - o git@github.com:estar-lab/tysons-tag-analysis-toolbox.git
 - https://github.com/estar-lab/tysons-tag-analysis-toolbox.git
- 8. Run mtag2_verification.m
 - Change the file pathing stuff on lines 9 and 10
 - Follow the descriptions in the plots to verify the data
 - i. For the acceleration plot, the axes should go "high" in the correct order
 - ii. For the temperature plot, the temperatures from the IMU and the pressure sensors should be relatively the same