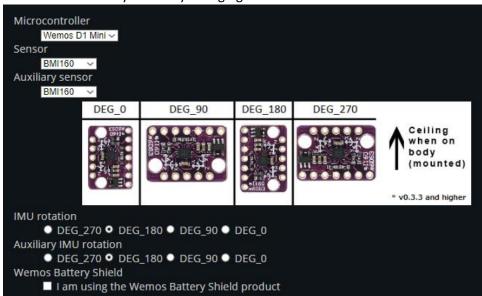# LilypadVR PCBA Secondary Processing Instructions

## TWO QUOTES SHOULD BE GIVEN TO THE CUSTOMER, ONE WITH ONLY PART 1 AND THE OTHER WITH BOTH PART 1 AND PART 2.

PART 1: FIRMWARE FLASHING

1. Plug in the device to a computer via USB. Make sure that, when this is done, the RGB LED on the device lights up green.
2. Press the button on the top right of the device to turn the device on. Make sure the blue LED lights up.
3. This link leads to an online firmware flasher with the required settings already preset. Use this online firmware flasher to flash firmware onto the device via USB.
    a. https://slimevr-firmware.bscotch.ca/?config=eyJib2FyZCI6eyJ0eXBlIjoiQk9BUkRfV0VNT1NFMU1JTkkiLCJwaW5zIjp7ImltdVNEQSI6IkQyIiwiaW11U0NMIjoiRDEiLCJsZWQiOiIyIn0sImVuYWJsZUxlZCI6dHJ1ZX0sImltdXMiOlt7InR5cGUiOiJJTVVfQk1JMTYwIiwiaicm90YXRpb24iOiIxODAiLCJpbXVJTlQiOiJENSIsImVuYWJsZWQiOnRydWV9LHsidHlwZSI6IklNVV9CTUkxNjAiLCJyb3RhdGlvbiI6IjE4MCIsImltdUlOVCI6IkQ2IiwiZW5hYmxlZCI6dHJ1ZX1dLCJiYXR0ZXJ5Ijp7InR5cGUiOiJCQVRfRVhURVJOQUwiLCJyZXNpc3RhbmNlIjoxODAsInBpbiI6IkEwIisInN3YXBBZGRyZXNzZXMiOmZhbHNlLCJ2ZXJzaW9uIjoiU2xpbWVWWUi92MC40LjAifQ
4. If the online firmware flasher is not available for you to use, the firmware must be flashed manually, as per the official SlimeVR Documentation, under section "Uploading the Tracker's Firmware".
    a. https://docs.slimevr.dev/firmware/index.html

b. Make sure these settings are used, either in the firmware generated by the documentation or by manually changing them in the "defines.h" file:



c. The blue LED next to the RGB LED should blink intermittently throughout the flashing process.
5. If firmware does not flash successfully, ensure the device is on and press the reset button on the bottom left of the device immediately after starting the firmware flashing on the website.

## PART 2: ADDITIONAL STEPS

1. The LED on the ESP-12F should be removed. One of the LEDs on the front edge of the board is meant to replace the LED that the ESP-12F comes with.
2. Extra solder should be added to the pins of the PJ-242 connector. Very frequently, the pins of this connector are lifted off the board and not properly connected. Manually adding extra solder ensures good electrical connections.