



ShotTracker Teardown

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<https://learn.adafruit.com/shottracker-teardown>

Last updated on 2021-11-15 06:25:43 PM EST

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[ShotTracker](https://adafru.it/eXt) (<https://adafru.it/eXt>) is a two-piece bluetooth low energy wearable device that tracks both the motion of a basketball players wrist and the impact of the ball on the net. We tried it out and then took it apart to see the hardware inside.



The wrist biscuit lives inside the included sweatband or spandex sleeve, and is calibrated to your own throwing style by the app during setup.



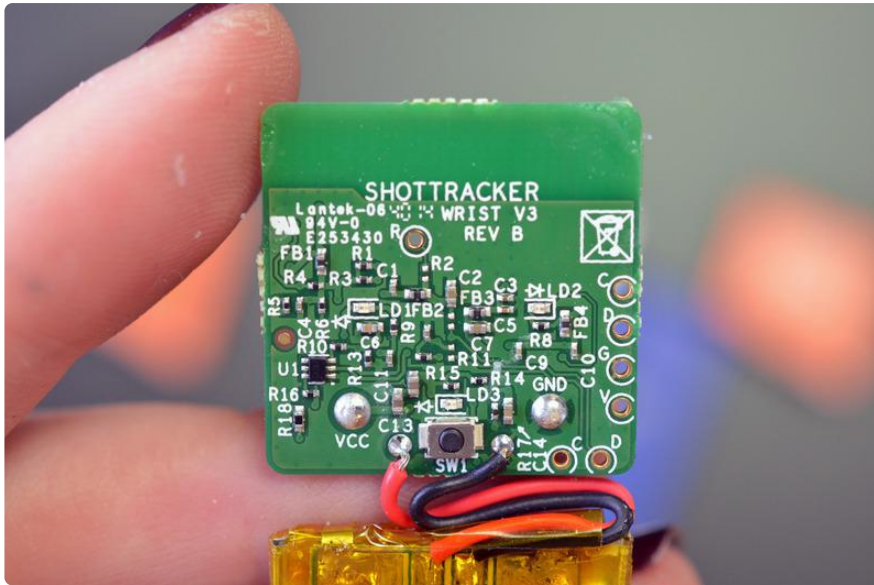


The other sensor attaches to the net and detects when the ball hits it. The app uses information from both sensors to determine when you attempt and successfully make shots, and directs you through different training exercises that you can track over time, and share online.



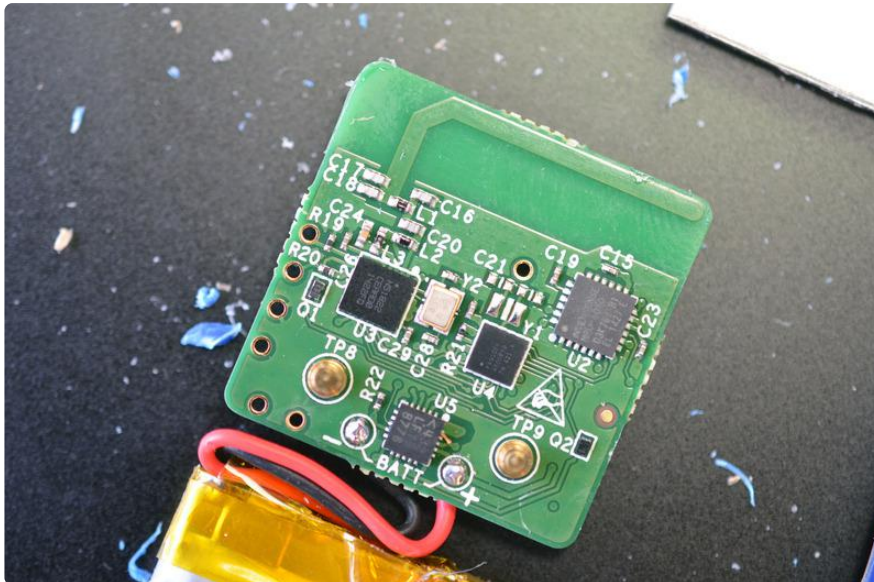


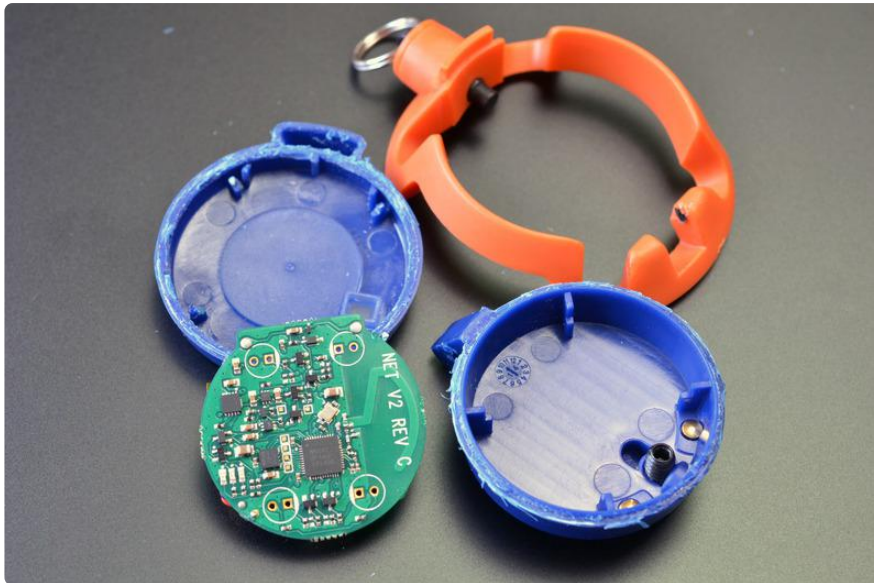
The base was easy to get open but the sensors were glued all the way around and were difficult and to get without cutting hazardously close to the lipoly batteries.



Components we found in the wrist sensor:

- Nordic NRF51822 BLE/ Cortex-M0 processor
- InvenSense MPU-6050 triple-axis accelerometer + gyro
- STMicro STM32F4 ARM Cortex-M4 processor
- lipoly battery charger
- 110mAh lipoly battery





Components we found in the net sensor:

- Nordic NRF51822 BLE/Cortex-M0 processor
- ST LIS33 triple-axis accelerometer
- LM3658 lipoly battery charger
- 350mAh lipoly battery

