Dear Kristian,

This report is to provide an update on the progress of the [EZ Tracker](https://github.com/YamiYukiSenpai/EZTracker) project to date. Its main focus is on the integration of the formerly independent hardware and software components into one cohesive unit.

**Overall Progress**

As indicated in the previous report, we needed to complete sensor accuracy, case issues, WiFi direct, and final Android application tweaking. We are proud to announce that we have hit a majority of these milestones which puts us very close to completion. All that is left is to solve WiFi direct. The last week has been a decent sprint and fortunately we have not run into any major roadblocks. We are able to test a standalone product which a user is can carry around, tracks steps, and sends the data to the Firebase database which is in turn manipulated by the fully completed Android application.

In the end, the case needed a total of 4 different revisions. The first 2 were scrapped in terms of minute measurement discrepancies. The 3rd version of the case worked well but due to our battery solution shorting, that revision needed to be scrapped and our backup plan needed to be put into effect. This version involved the battery pack being modular to the device as opposed to being directly part of it. Thanks to the first 3 versions, the final revision of the case was more precise.

Connecting the phone to the device through WiFi was not successful. Using the internal WiFi module for WiFi direct was not possible for unknown reasons, but, using the USB WiFi module was successful. However, while WiFi connection was successful, I cannot open up the web page using the static IP. If I cannot make it work by the end of this week, I’ll just use the Pi’s ethernet port, connect to a laptop, and access the webpage through it.