**Weekly Progress Report**

Project Title: 4Sole

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Name: Washington Garcia

Date: March 20, 2017

**Summary of your activities in the past week (4 points):**

Describe your (i) progress on tasks, (ii) tasks completed, (iii) demo of completed task, (iv) open challenges.

This week I completed the switch to GATT for our Bluetooth control scheme, which required a rewrite of all our Bluetooth code and some of the Arduino code. However, now the app runs faster, is more logically organized, and has less bugs than with the previous Bluetooth implementation, so there was some value added. An unexpected obstacle was the 17 byte limit for transmission packets with the new Bluetooth chip, which meant I had to shorten all of the string responses that the Arduino gave. An open challenge is keeping MapActivity’s connection status persistent even when the user presses the back button to access the SessionActivity. Although the underlying Bluetooth connection stays open, the foot sole maps are cleared.

**Tasks planned for this week (1 point):**

This week I must clean up and finish debugging the GATT Bluetooth. Although I had a chance to implement a lot of fixes during the swap to GATT, some bugs have persisted and affect the usability of the Bluetooth controller. I also have to implement the ColorHelper and integrate it into MapActivity.

**Cumulative list of completed tasks:**

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| **Task** | **Completion Date** |
| Android Bluetooth Service swap to GATT | 3/19/17 |
| DFRobot/4Sole app & connectivity fixes | 3/19/17 |
| Change deviceList pop up to only BLE devices | 3/10/17 |
| Let ImgButton initiate scan and auto refresh stop scan on close | 3/10/17 |
| Fix “Scan” functionality to be more user friendly or eliminate completely | 3/13/17 |
| Foot Sole Motor Driver Working Prototype | 2/22/2017 |
| DFRobot BLE Controller Testing | 2/19/2017 |
| Android App Requirements/Dependencies (Map) | 2/5/2017 |
| Map Activity Assets | 2/5/2017 |
| Pressure Sensor implementation to foot sole | 1/28/2017 |

**NOTE:**

1. **Individual weekly progress reports must be submitted in the class**
2. **Only typed and printed reports are accepted**
3. **Entire team should review individual member reports and provide constructive feedback**