

sddec18-15: Portable DAQ for dogs

Week Report 8

April 2 – April 9

Advisors

Simon Laflamme

Austin Downee

Client

Simon Laflamme

Team MembersMatt Faronbi — *Communications Lead*Daeyoo Kim — *Hardware lead*Rohan Yadlapati — *Co-Team Lead*Rishab Kinnerkar — *Web developer*Yan Jie Hui — *Co-Team Lead*

Summary of Progress this Report

Added features to our application. Researched and assigned importance of components in our project.

Pending Issues

Need to finish application and connect it with our DAQ system. Discuss with client our assessment on the board components.

Plans for Upcoming Reporting Period

Meet with our advisor and discuss our technical progress. Demonstrate application to client.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Matt Faronbi		0	25

Daeyoo Kim	I tried to figure out how long the battery will last. I calculated it based on the battery life equation, which is "Battery Life = (Battery Capacity) / (Current Drawn)". I used datasheets of Arduino Uno, stretch sensor, and Bluetooth module in order to find out the total capacity following the discharge rate.	3	31
Rohan Yadlapati	Researched into the relative importance of different components and saw which components can be added and removed.	3	31
Rishab Kinnerkar	Added features like contact form, grapher, profile making to our application.	4	37
Yan Jie Hui	Tested feasibility of different designs. Decided to use ISP to reduce Arduino boards size.	2	31