

sddec18-15: Portable DAQ for dogs

Week Report 6

March 9 – March 26

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**

Worked on Simulink code and carried out tests. Started comparing our new gotten results with our previously gotten ones. Designed test cases which our system would have to undergo. Compared different microcontrollers.

Pending Issues

We need to compare our previously gotten results with Simulink tested results. Although it seems that Simulink is more accurate we need to test the code in the same environment we previously carried our tests.

Plans for Upcoming Reporting Period

Meet with our advisor and discuss our technical progress. We will be doing a comparison between the code. After comparing the results we would be discussing with our advisor on which code we should be using.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Matt Faronbi	Tested DAQ Simulink block with different values.	3	25

Daeyoo Kim	I researched about the Arduino Nano. Our team is currently using Arduino Uno for prototype, but it is too big to attach on the dog collar, so we need to make much smaller DAQ for our final result. I tried to figure out how these two microcontrollers are different by comparing each datasheet.	3	25
Rohan Yadlapati	Started working on CAD design. Did simple CAD designs which would be like our prototype.	3	25
Rishab Kinnerkar	Worked on new database schema for app. Came up with different database tables. Setup wordpress.	3	27
Yan Jie Hui	I came across some project that used a bootloader on the ATmega328 chip, which is the chip on the Arduino Uno and Nano. I started looking into how to make the smaller board suit our needs.	3	27