sddec18-15: Portable DAQ for dogs

Week 10 Report

Advisors
Simon Laflamme
Austin Downee

Client
Simon Laflamme

Team Members

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

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Matt Faronbi	Calibrated sensor to achieve different stretching values and to obtain a default value for resistance	3	34

Daeyoo Kim	I researched about components that we are going to use for the senior design 2. We are planning to us PCB board (Printed Circuit Board) because our DAQ circuit should be as small and lightweight as possible with improving the previous prototype by adding more features needed. The software that is compatible with the PCB fabrication is EasyEDA, so i read through the EasyEDA tutorial and tried to figure out how the PCB board interfaces with the software.	4	41
Rohan Yadlapati	Added new feature to CAD design so that it can easily be installed onto the dog collar. Continued research into signal processing capabilities and what is necessary for our project.	4	41
Rishab Kinnerkar	Made test accounts for the web-application and tested out its navigability. Updated test profiles and checked the updated profiles for any bugs. Connected different web-pages and checked to see if they are all functioning appropriately.	3	42
Yan Jie Hui	Studied the johnson nyquist thermal noise effect. Our device will collect data from a resistor and during the operation pedioc, the daq might suffer temperature changed, which will affect the precision of the data.	4	45