

EE / CprE / SE 492 - Team #15

Portable DAQ for Dogs

Bi-weekly Status Report #7

Client: Simon Lalflamme

Faculty Advisor: Nathan Neihart

Team Members:

Yan Jie Hui - Co-Team Lead

Rohan Yadlapati - Co-Team Lead

Daeyoo Kim - Hardware Lead

Rishab Kinnerkar - Web Developer

Matthew Faronbi - Communications Lead

Past Week Accomplishments

Yan:

Final design:

- Order all reminding parts
- Solder all components to the PCB

Testing:

- Test each module of the final design separately and together

PCB design:

- Started working on the PCB design

Filter and Amplifier Circuit:

- Final design of filter and amplifier circuit done and tested.
- Need to implement with arduino

Boost converter circuit:

- Tried to find out why the feedback loop was not working properly on the IC, which made the voltage drop.

Rishab:

Web application:

- Tested the final website for use cases.
- Implemented and tested prototype mobile version.

Matthew:

Power management

- Implement a power switch
- Implement a power save function in DAQ
- Helped complete poster board

Daeyoo:

PCB

- Double checked all the connections on the boards.
- Converted the Ultiboard schematic files to the gerber files which are required for PCB fabrication from "OSH Park".
- Ordered two PCB layers at ETG and the boards will be arrived in 12/4 Tuesday.

Other Works

- Worked on the poster.
- Worked on the final report.

Rohan:

- Researched and implemented Gobetwino with Rishab
 - Decided to not use it as it would complicate the process for the User
- Final poster, Report, Presentation

Pending Issues

- Complete RTC method and implementation
- Finish Website

Individual Contributions

Team Members	Contribution	Weekly Hours	Total Hours
Yan Jie Hui	Put the final the device together and conduct final tests	15	90
Rohan Yadlapati	Testing of Gobetwino and Final document work	5	75
Daeyoo Kim	Double checked the PCBs and made an order them and make sure all the components are ready to solder right away when the boards come.	10	82
Rishab Kinnerkar	Tested final desktop website. Tested beta mobile version. Researched and worked on arduino code.	10	84
Matthew Faronbi	Designed a switch and saving power and reduced size or arduino by removing unneeded components	6	76

Plans for Coming Week

Rishab:

- Final website testing
- Implement mobile version

Matthew:

- Find math function relating sensor and effects of temperature
- Complete final presentation and project

Daeyoo:

- Solder all the components and test them when the boards arrive.
- Finish final report and prepare for the IRP presentation.

Rohan:

- Finish final report and presentation
- Assist others with final project work