

## **EE/CprE/SE 492 WEEKLY REPORT #7**

01/13/2020 – 01/27/2020

**Group number:** sdmay20-24

**Project title:** Wearable Cardiac Monitor

**Client &/Advisor:** Huang Cheng

### **Team Members/Role:**

**Andrew O'Brien** - Software

**Peyton Sher** - Software

**Ruiyu Sun** - Hardware

**Scott Beard** - Hardware

**Samantha Kimball** - Communications

**Vincent Lazzaro** - Communications

### **Weekly Summary:**

Our group scheduled when we could meet for the semester. We discussed goals that we set for the semester with our client.

### **Past Week Accomplishments:**

**Andrew O'Brien:** We discussed as a group what steps we would take to complete the project this semester and refocused our goals for the project.

**Peyton Sher:** We met with our group and our advisor to talk about where we were and what we needed to get started on. Also looked briefly into transferring data properly.

**Ruiyu Sun:** Met with group and professor. Got step of the beginning this semester with group.

**Scott Beard:** Met with group and professor to set goals for the semester. Defined first steps with group

**Samantha Kimball:** Met with the group to discuss when we are free then set our goals for the semester as well. We also met with our client to inform him of our plans for the semester.

**Vincent Lazzaro:** Discussed with the group when I am free to meet for the semester. Set goals for the semester.

**Pending issues:** (If applicable: Were there any unexpected complications? Please elaborate.)

**Andrew O'Brien:** Taking a look at the data transmission and making sure that data is available throughout the application.

**Peyton Sher:** Cleaning up interface and making sure data is transferring from the hardware device to our phone and graphing properly.

**Ruiyu Sun:** PCB redesign.

**Scott Beard:** New board design, electrode gel purchase

**Samantha Kimball:** None at the moment

**Vincent Lazzaro:** No issues at the moment

**Individual contributions:** (Creating this section is optional, but it is Required to include the

“Hours Worked for the Week” and their “Total Cumulative Hours” for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.)

Name	Contribution	Weekly Hours	Cumulative Hours
<b>Andrew O’Brien</b>	Research, goal setting	2	2
<b>Peyton Sher</b>	Group meetings and discussion	2	2
<b>Ruiyu Sun</b>	Meeting, goal setting	2	2
<b>Scott Beard</b>	Goal setting, planning	2	2
<b>Samantha Kimball</b>	Client meeting, goal setting, planning	2	2
<b>Vincent Lazzaro</b>	Discussed goals for the semester	2	2

**Comments and extended discussion:** (Optional)

Feel free to discuss non-technical issues related to your project.

**Plans for the upcoming week:** (Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)

**Andrew O’Brien:** This week my plan is to get the communication stuff figured out.

**Peyton Sher:** Keep working with group and get app completely finished. Then move to data processing.

**Ruiyu Sun:**

**Scott Beard:** Start work on new board design for new ECG chip, purchase gel

**Samantha Kimball:** Vincent and I will be working on the noise level of our monitor by smoothing out the data.

**Vincent Lazzaro:** Work with Sam and try different techniques of data analysis to smooth out our signal and diagnosis any irregularity with the heart beat.

**Summary of weekly advisor meeting:** (If applicable/optional)

Talked with our advisor on what needs to be done this semester and what are goals are for our group. We will be working on lowering our power consumption, working on the noise levels, and eventually putting our circuit onto a PCB.

