EE / SE 492 Week 7 Status Report
Nov. 23, 2019 - Dec. 6, 2019
Group: sddec 19-20
Project: Ultra-thin electronic skin for real-time health Monitoring Advisor/Client: Liang Dong

## Team Members:

Sovann Chak: Software Architect, iOS Developer
Omar El-Sherbiny: Circuit Design of Data Processing and Communication
Justin Gordon: Software Developer, Communication research
Sungmin Kang: Circuit design and analysis of Mobility sensor
Sangwon Lee: Circuit design and analysis of ECG

## Passing Week's Accomplishments

## Software Engineers

## (Sovann)

- Created data model and efficiently store and save data
- Have the application connect to multiple BLE devices
- Finalize application


## (Justin)

- Worked on implementing and connecting BLE
- Connecting to device
- Reading characteristics

Electrical Engineers

## (Omar)

- Soldered the data acquisition circuits on a prototype board.
- Finalized ECG data acquisition circuit.
- Switched to a hardware filter as opposed to using the digital FFT which was used in our initial prototype


## (Sungmin)

- Finalized fabrication step (fusion)
- Made it visualize step by step
- Made poster for the presentation


## (Sangwon)

- Finalized fabrication step
- Poster editing


## Individual Contributions

| Team Member | Contribution | Weekly Hrs | Total Hrs |
| :---: | :--- | :---: | :---: |
| Sovann | Allow for multiple BLE <br> devices to be connected, store <br> and show data, finalize <br> application | 8 | 104 |
| Justin | Implemented BLE and <br> graphing interface | 7 | 92 |
| Omar | Finalized data acquisition <br> circuits and soldered them <br> on a prototype board. | 7 | 93 |
| Sungmin | Finalize fabrication step, and <br> make our poster about <br> fabrication part. | 6 | 100 |


| Sangwon | Finalized fabrication step <br> Poster editing | 5 | 99 |
| :--- | :--- | :--- | :--- |

## Plans for Next Week

(Sungmin) Finish testing and finalize project
(Sungmin) If our sensor has some problem, fix it
(Sungmin) Prepare presentation
(Justin) get data from devices
(Justin) graph data live
(Sovann) Finalize application
(Sovann) Add user profiles

