Weeks 3 - 4 Status Report

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**Section:** 9 AM

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1. How did the Problem Definition assignment inform the design of your Block Diagram? Provide specific examples. *(45 points)*

The Problem Definition assignment influenced the design of our Block Diagram by giving us a better idea of what subsystems we would need in order to produce the functionalities that we wanted in order to meet the needs of our users. Specifically, it led to our decision to include both a vibration motor and a buzzer in our pillow for the purpose of providing both a haptic and an audio alarm for our user.

2. What obstacles did your team encounter over the past 2 weeks, and how did you individually contribute to their resolution? Provide specific examples. *(45 points)*

Our biggest challenge of the last two weeks has been finding components to complete the major component selection rationale assignment. Specifically, we encountered some problems with being unsure of the proper circuit designs to drive different components in our project. In order to contribute to the solution of this problem, I looked up the data sheets for some of our components and used the circuits recommended in the data sheets to see what parts and circuit designs we needed.

3. How will you individually contribute to the project in the next 2 weeks? *(45 points)*

I will contribute in the next two weeks by completing the proof of major parts for my subsystem (the sensor and its op amp circuit). I will also contribute by creating a schematic in Cadence for my subsystem per the ECAD subsystem schematics assignment. Thirdly, I will work with my team to complete our Gantt Chart. I will personally contribute by assigning the tasks related to fabricating and testing my subsystem.

4. What resources do you need to be more productive? *(45 points)*

Since we will be working in Cadence in the coming weeks, I will need resources pertaining to the use of Cadence. I understand that there are blog posts on Dr. Jordan’s ESD blog which should be helpful for the ECAD assignment. Right now, I am not even sure which of the installed programs I should be opening.