Weeks 7 - 8 Status Report

**Name:** Jacob Knaup

**Section:** 9 AM

**Date:** 10/11/2017

1. What did you find the most challenging when creating a PCB layout for Homework 4, and how did you overcome those challenges? Provide specific examples. *(45 points)*

I had a problem with my original PSoC footprint—the pin numbers were wrong—which took a long time to debug and correct. This was probably my biggest challenge. More generally, I found routing all of the connections to be difficult and had to redo many of them because they were too thin.

2. How are you individually contributing to the deliverables due this week (Hardware Design, Software Design, and Mechanical Design)? Provide specific examples.  
*(45 points)*

We split up task assignments for the three deliverables. I am individually completing our software design flowchart as my contribution. This has required me to conceptualize our software design, learn about state chart diagrams, install ArgoUML, and draw the diagram for our intended software. I am also contributing to the mechanical design by making the image of a customer using our product.

3. 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)*

One obstacle we encountered last week was uncertainty regarding how to show a user interacting with our design. Since our electronics will all be packaged inside a pillow, they are not visible while the customer is using it. The solution I suggested was to just a customer sleeping on the pillow with a phone showing an alarm screen super-imposed to suggest that the pillow is connected to the user’s smartphone alarm.

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

I will contribute to the project in the next two weeks by presenting my subsystem in the design review, presenting our software in the design review, and testing my subsystem PCB. I will also contribute by updating some of our old documents, such as the problem statement as needed. Finally, I will fill in the parts for my subsystem in the Proof of All Parts assignment.