

## Individual Status Report II

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**Section:** 9 AM

**Date:** <3/16/20>

1. In the table below, list 10 things your team learned from the design review (including any instructor comments) and describe the individual action(s) or step(s) that you will take to address each issue. (*Minimum 1 sentence each*)

Lesson Learned in Design Review	Individual Action
1. In the team schematic grounds should oriented downwards according to industry standards.	I will need to go into the team schematic and change the orientation of the grounds.
2. According to industry standard, VCC symbols should always be pointed up.	I will need to change the team schematic to reflect the new guidelines respective to VCC orientation.
3. One of the power inputs on the stepper motor has an unnecessary wire attached.	In the schematic I will have to remove the unnecessary wire.
4. When designing fuses, we need to make sure that the fuse is rated to handle the current surge.	We need to go into the data sheet and make sure the fuses chosen are appropriate.
5. It is good practice to make sure that all the resistors we have are rated for the wattage it will experience.	In the power budget we need to calculate the wattage experienced by the passive elements in the design.
6. It is good design practice to include all the ISCP headers in the footprint even if they are not being used.	I will need to redo the footprint for the ISCP.
7. To make the user interface for the project more intuitive it would be	We will need add into the design an RGB led.

good to include a RGB led.	
8. The voltage reading from the ultrasonic sensor might fluctuate, it would be good practice to verify the reading.	In the code, I will need to implement a smoothing algorithm to make sure the information sent to the stepper is not sporadic.
9. It's good practice to have a description of the individual subsystem underneath the schematic.	I will edit the schematic by placing the subsystem descriptions underneath the schematic.
10. The software diagram should have larger font.	I will edit the activity diagram by increasing the font.

2. What parts of your individual work toward your team's project are you most proud of, and why? What parts of your individual work toward your team's project needs the most improvement? (*Minimum 4 sentences*)

The individual work I am proud of has to do with getting the UART communication between our pic and the particle argon working before testing it on a PCB. I feel I put the team ahead of the curve by validating the functionality of my subsystem. However, part of my work, dealing with the team's project that needs the most improvement in my listening skills. I have trouble with blurting out the first thing that comes to mind without critiquing it to make sure it is not offensive.

3. In terms of collaboration and team dynamics, what has gone well in your team? What issues does your team need to work on in order to collaborate better? (*Minimum 4 sentences*)

In terms of collaboration and team dynamics, what has gone well with the team is communication. Communication has been open and frequent with our team, and I appreciate that. Issues our team needs to work on to collaborate better would be meeting in person. We don't meet in person as often as we would like due to our work schedules.

4. On a scale of 1 (low) to 10 (high), how confident are you that your team will successfully complete a functioning project that meets all of the project specifications? Write a minimum of 3 sentences describing the rationale for your stated confidence level. (*Minimum 3 sentences*)

On a scale of 1 to 10, I am very confident that our team will have a functioning project to meet the project specifications at the end of the semester. We are already ahead of most of the groups in terms of prototyping. We already breaded boarded and verified two of the individual subsystems before putting them on a PCB, so if events unfold as they likely will, we will be ready at the end of the semester with a functioning PCB.