

## 1. Expected Project Resources

We are currently on schedule with our project. For the sensor side of the project, we have completed our prototype and have had a PCB manufactured and shipped to us. We just need to solder the components onto the PCB and test it to determine if everything is working as normal. Our project requires laboratory work, so we moved our lab from Cobleigh to Tim Amish's garage and we plan to complete testing in his garage. We are unable to use the SPL meter so we are unable to know what the exact testing SPL is. From using the SPL meter in the past we know the general range of SPL that the subwoofer is producing. At this point we do not plan on needing to complete portions of this project in a virtual way.

The project is still on track to meet all of the original requirements. The computational side of the project is entirely unaffected as all development was already being completed remotely in MATLAB and Simulink. The group maintains a Github repository for sharing code and files.

## 2. Modified Deliverables

- Final report (unchanged)
- Additional documentation (unchanged)
- Project flyer (unchanged)
- Design fair
  - Likely virtual/pre-recorded instead of live
  - Unlikely to take place in SUB ballrooms as originally intended
- Prototype rollout
  - Virtual/pre-recorded instead of live
  - Will record video/screenshots of PCB/scope setup and MATLAB simulation runs

## 3. Sponsor Outcomes

Our project sponsor will receive:

- Signal conditioning datapath circuit design and hardware (PCB)
- Matlab correlation engine script
- Simulink IP components
- Documentation and design report

## 4. Course Objectives

a. ) The engineering process will be demonstrated in our individual work and also in the final design report.

- b.) Translating classroom knowledge into real solutions in the real world will be provided in the prototype rollout.
- c.) Effective work in a team environment will be shown in our team meeting minutes. \
- d.) Clear technical documentation and communications will be shown in the notebooks.

## 5. Communications Plan

The bulk of our communication will be done via GroupMe like previously in the semester with team and advisor meetings being run by webex and google hangouts. Louis and Khristian are both not in Bozeman.

## 6. Support Resources

We will utilize free online resources such as Cisco webex and the google software suite to effectively communicate and complete all of the necessary assignments.

## 7. Other