**SDDEC20-06 Contingency Plan**

The team mitigated the internal risk by calculating how much space they would need for processing and communicated with the DBAs to keep updates on schedule and minimize processing time. The team mitigated the external risk of bad weather by checking weather reports in advance and bringing sleeping bags to work to rest during off hours.

This is similar to the COVID-19 outbreak issue in that much like how they ran short on disk space we will suffer time shortages due to the limitation of only having a semester to prototype on campus. This can be mitigated by making sure we create fewer prototypes of higher quality much like an option for them would have been to release fewer updates while focusing on making sure they were more major and tested updates.

One of the largest impacts of the COVID-19 outbreak will be hardware development delays. A lot of our hardware development was dependent on working with parts in lab and now without access to the lab, we will need to revise our first semester plans. At the same time we will have a slowed software development and prototyping process as our ability to communicate will be hindered to some extent by the inability to interact in person.

Our contingency plan is to perform theoretical design for all aspects of the project and to implement them when access to necessary equipment becomes available. All work that can be performed from home, such as software development, should continue as planned. Once access to labs are granted, all theoretical designs should be built and tested for validity.

In doing this exercise we learned about how to plan ahead for difficulties we may incur due to factors outside of our control. This is important to ensure that when issues arise that we are still able to maximize our success in considering whatever may be happening. Additionally, we learned the importance of continuing to revise our contingency plan going forward as things change and develop. By doing this we hope to continue making progress on our project even with the challenges that come up.