

Client & CS Team Meeting - 10/21/19

- BlueROV2 T200/M200 motors, unavailable due to internal reasons (redesigning motors due to issues), possible Chinese knockoff versions that we can use
- Need to possibly find another motor that we can use to power the ice drills that are capable underwater
- Need to get the GPS system with the ROV so we can get to the iceberg
- Structure by motion - might be a challenge to make it work with the conditions in the water, need a good reference frame, could potentially use lasers
- Mounting the ROV on the ice will be a huge advantage in terms of ability to collect data
- Testing could be done as soon as April, easy part is getting there and getting out to the iceberg, hard part is that we need to get something that works first before we can go test
- 10m of depth is golden, if we can collect data 10m under, we can expand and go further with ease
- (ECE TEAM) - Need to convert requirements into Overleaf document and send to Dr. Nash
- Potential idea - green and red laser, they come from different locations and each one shines a grid pattern onto the ice field from different directions, take a picture from the front, then you can get the topography from the image. Can be applied in the lab, don't necessarily need to take the ROV out into the field to test
- Aim to make sure that the system will be able to work in 30 minute intervals - not sure if he means data collection or deployment to return