8/10/2021 Meeting

**Meeting Room:** E10

**Meeting Time:** 11.32 – 12.15

**Attendees:** Kevin Taylor, Bill Liu, Laurence Prins, Aryan Srivastava, Shayne Crimp, Diego Ramirez, Toby Bourke

**Agenda:**

* Reports on the work which has been completed since last meeting
* Plans for the coming week(s)
* Questions

# Mic

* Have gotten the mic working up to distances of 24.5m.
* Have been able to plot a sine waveform on the serial plotter.
* Have also gotten the FFT working.
* Next steps will be implementing the convolution method to detect the waveform and measure distance.
* With that done, can test a variety of environments

# Mesh

* Have developed a method in 2D for building the mesh
* Can simulate a certain level of uncertainty
* Get more accurate results with more devices, however using probability can get a good estimate of the mesh
* Devices have less accurate results with steep angles, i.e. two devices close together versus two devices further apart
* It’s hard to visualise the 3D mesh

# Deliverables

* The final report should be sufficient
* Final hand over will include all the logs, code, and meeting minutes to fill in gaps that could have been missed from the report.
* Oral presentation is similar format to the previous presentations, just with an audience and with access to AV equipment.
* Cut off is exactly 5 minutes, examiner has a timer, and a light will go off to signal the end of the 5 minutes
* Poster due tonight
* Need to find a cut off between working on the project and working on deliverables.