

Team Name: sdmay24-24

Team Members: Jacob Elliot, Julia Falat, Joseph Hanson, Logan Kinch, Viola Newman, Chris Penne

Report Period: Feb 25<sup>th</sup> – Mar 2<sup>nd</sup>

### **Summary of Progress in this Period**

Got our transducers lined up in the orientation we want. Began emitting through multiple transducers. Want to possibly use a sine wave instead of a square for more clarity but are trying to determine if it is easier. Also got the code compiled and ready to upload to our microcontroller.

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### **Pending Issues**

We burned out two of our microcontrollers this week and are now down to one. We need to look and see why this keeps happening before continuing.

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### **Plans for Upcoming Reporting Period**

Add phase shifts to the transducers and start filtering a received signal. Also plan to order 8 more transducers as a safety measure for them possibly burning out again.

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