sdmay23-22: Ultrasonic radar

Week 7 Report
November 9 - November 16

Team Members

Kevin Czerwinski — *Electrical Engineer*
Jack Riley — *Electrical Engineer*
Samuel Rosette — *Electrical Engineer*
Derek Thomas — *Computer Engineer*
Ryan Foster — *Electrical Engineer*
Abubaker Abdelrahman — *Electrical Engineer*

Summary of Progress this Report

Began implementing the transducers with the arduino to be able to send and receive signals. Once the transmitter is hooked up to a 40kHz sine wave and an object is placed in front of it, the receiver displays a clear signal.

Pending Issues

Currently we are working on how to receive the data on the arduino and make any useful calculations out of it. This part has proven to be challenging.

Plans for Upcoming Reporting Period

For the upcoming period we plan on having the transmitter and receiver function as a radar, and once we get it working, we will begin adding more transmitters to create the array.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Kevin Czerwinski	Worked on testing the transducers and implementing the code.	5	0
Jack Riley	Worked on testing the transducers and implementing the code.	5	0
Samuel Rosette	Worked on testing the transducers and implementing the code.	5	0
Derek Thomas	Worked on testing the transducers and implementing the code.	5	0
Ryan Foster	Worked on testing the transducers and implementing the code.	5	0
Abubaker Abdelrahman	Worked on testing the transducers and implementing the code.	5	0

Gitlab Activity Summary

Nothing to report.