

Advisors: Mani Mina, John Pritchard **Client:** Minnetronix

Members (roles): Brandon McDonnell (Group Lead); Justin Long (Web Master), Timothy Dee (Key Concepts)

Project: Remotely Connected Electric Field Generator for Particle Separation in a Fluid

Weekly Summary

We worked with circuit simulation software to troubleshoot the output of the summing amplifier. The cause of distortion on the output is from the difference of phase shift between the two different amplifier stages. Next week we will work on frequency compensation to try and get the same phase shift between the two stages so they are correctly summed at the output.

Weekly Notes

Have a working 2 stage amplifier that sums the output of two different waves but is currently incorrect because of differing phase shift.

Overhauled web UI to a better looking and more modern layout and theme

Pending Issues

Output of summing amplifier not correct or at least not what it should be

Plans For Next Week

Troubleshoot phase shift in circuit and make sure control of circuit still works from web server

Individual Contributions

Total Contributions

Brandon McDonnell	13hrs	120hrs
Tim Dee	10hrs	135hrs
Justin Long	10hrs	130hrs