

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 finally were able to get a working version of a multistage amplifier using 3 programmable gain amplifiers (PGA's), but there is still some noise in the output. We began troubleshooting the noise on the output and believe it to be related to the lower quality op amps (741's) that we were using. We have purchased more high quality op amps and we are hopeful that this will help the problem

Weekly Notes

Working multi stage amplifier with better resolution than we thought we would be able to obtain

Met with George to give practice presentation

Working on the summing amplifier and getting power supply for op amps that will be $\pm 30V$

Pending Issues

Output of amplifier circuit contains noise and bounces around a lot

Plans For Next Week

Troubleshoot noise in circuit and test the high voltage op amps

Individual Contributions

Total Contributions

Brandon McDonnell	10hrs	107hrs
Tim Dee	10hrs	125hrs
Justin Long	14hrs	120hrs