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| Team Name: sdmay24-Team Members: Theodore Burnick, Ben Mullin, Jack Cassidy, Bradley McClellan, Julia Kroeper, Ian BixlerReport Period: Oct 9 – Oct 22**Summary of Progress in this Period**We started to do work on testing for the project. The electrical engineers are working on testing the tube amp to see if we get the frequencies that we desire. We tried to test out the tube amp by playing music from our phone and then send it to the ADC and get the spectral analysis of it. For the software side, we took audio from a .wav file, applied a mathematical function to it and then used that as the output for audio. We are trying to get a certain mathematical model so we can figure out where the distortion characteristics are. We also made issues and milestones in git so we practice agile development and go through anything that we would need. **Pending Issues**Do more research to find what exactly we are looking for in the model and microcontroller design. Work more with the MIDI library so we gain a better understand on how that works. **Plans for Upcoming Reporting Period**Keep looking at different open-source materials so we could use that to get a better understand of what we want to do and how to make the process much easier. Designing Analog/Digital input/output systems for electrical and design a user interface for microcontroller distortion control.  |