

**sdmay18-39: Sound Effect Devices for Musicians**

Week 8 Report

November 7 - November 14

**Team Members**Benjamin Reichert — *Experimentation Team Leader*Daniel Kroese — *Software Integration Leader*Garrett Mayer — *Technical Communications Leader*Thomas Kimler — *Technical Project Manager*Virginia Boy — *Communications Leader***Summary of Progress this Report**

- Acquired access to additional research information via the Audio Engineering Society
- Revised and finalized project development plan and anticipated deliverables
- Researched impacts of harmonic and intermodulation distortion on sound quality
- Updated website and project plan
- Added ABC breakout to expand test bench signal chain to allow for 3 recorded inputs (base line signal, tube amp signal, SS signal)

**Pending Issues**

- Need to develop a standard sample for data acquisition via test bench
- Need to acquire data for FFT analysis and comparison between tube amp and solid state amp signals
- Non trivial hum introduced from preamp stage on recorder

**Plans for Upcoming Reporting Period**

- Need to research literature available from AES on tube amp emulation
- Need to update project plan and design document to match current expectations
- Improve graphing function to plot multiple waveforms simultaneously

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Benjamin Reichert	Developed ABC breakout to expand test bench signal chain to allow for 3 recorded inputs (base line signal, tube amp signal, SS signal); Acquired access to additional research information via the Audio Engineering Society; Revised and finalized project development plan and anticipated deliverables;	8	65
Daniel Kroese	Developed ABC breakout to expand test bench signal chain to allow for 3 recorded inputs (base line signal, tube amp signal, SS	7	59

