

## 6.111 Final Project Abstract

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For our final project, we have envisioned an audio effects suite which supports not only the essential standard effects found on a commercial pedal box, but some more complex and uncommon features. The standard effects which we will support are equalization, reverb, delay, chorus, flanger, phaser, tremolo, wah, and distortion. Additionally, we plan on adding functionality for ring modulation which, when packaged as an individual component, retails for hundreds of dollars. And with time permitting, we will consider including a long delay feature and the ability to record and overdub, as found in a standard loop pedal. Due to the power and versatility of the 6.111 lab kit, we expect no need for downsampling, and intend to maintain a high quality audio stream. We expect that creating a solid underlying infrastructure will decrease the overhead for added functionality, allowing us to implement a wide range of features.