

6.111 Final Project Abstract

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Abstract:

Our goal for the final project is to make an electronic drum. We plan to accomplish this by having a pad that processes the frequency of a drum hit into discrete amplitude samples. Then, through signal processing this is converted into a discrete waveform of an audible drum sound that corresponds to the strike on the pad. This sound is then played out of a speaker all ideally with low enough latency for a competent drummer to play music quickly without noticing any drawbacks when compared to an actual drum.