Music Junkies: Teensy MIDI Controller

The purpose of our project was to design an Arduino based MIDI/mixing controller utilizing knobs, ultrasonic sensors (for a built-in theremin), and a DAW (Digital Audio Workstation). We ended up using the Teensy microcontroller as opposed to the Arduino microcontroller for it has a much wider range of usage and capabilities. Using our creation with music making software (aka the DAW), we managed to create a controller that gives the user the old-fashioned tactile feel of mixing music as opposed to only a keyboard and mouse. This helps gives a much deeper experience in not only creating music and manipulating sounds, but also a better experience for **performing** said music (which can be two very different things). Enjoy!