DIGIMUSER is a digital vocal effect processor “stompbox” that applies a variety of real-time signal processing algorithms to alter the voice of a singer. DIGIMUSER uses a microcontroller and user controls to digitally apply vocal effects such as filters, delays, distortions, and modulations. DIGIMUSER takes a standard dynamic microphone as input and outputs to an amplifier or additional audio processing devices. To put it simply, DIGIMUSER gives anyone an entire effects studio right in the palm of their hand.

**Design Requirements**
- 4 vocal effects
- Knob to increase and decrease intensity of effects
- Knob to change effects
- Switch to turn on and off the effects
- Device small in size
- AC power adapter

**Main Components**
- Teensy 4.0
- Barrel Jack
- Power Connector
- Rotary POT 1
- Rotary POT 2
- Rotary Switch (4 Pos.)
- Input 1/4" Mono Jack
- Output 1/4" Mono Jack
- Stomp Switch

**Systems Diagrams**

**Hardware Diagram**

**Software Diagram**

**Check out our effects here:**

**Device Dimensions**
- 4.5" x 2.5" x 1.25"