# Tasks

1. Connect to Audio Board
2. Implement Static Digital Filter
3. Test Potentiometer ADC Read on Teensy MCU
4. Implement Dynamic Digital Filter
5. Mount Current Hardware in Pedal Enclosure
6. Implement Additional Features

# Test Plan

1. Task 1: Connect to Audio Board
   1. Test Line-Level Audio I/O
      1. Run audio signal to the input of the Audio Board.
      2. Confirm that audio signal is received at the output port.
2. Task 2: Implement Static Digital Filter
   1. Modify Parametric EQ on Audio Board to behave as a low-pass filter at a fixed cutoff frequency.
3. Task 3: Test Potentiometer ADC Read on Teensy MCU
   1. Connect potentiometer to Teensy MCU ADC input.
   2. Print encoded voltage samples to serial console.
4. Task 4: Implement Dynamic Digital Filter
   1. Verify that the potentiometer can vary Digital Filter cutoff frequency using I2C.
5. Task 5: Mount Current Hardware in Pedal Enclosure
   1. Perform continuity checks on electrical connections.
   2. Perform visual check on quality of installation.
6. Task 6: Implement Additional Features
   1. Attempt to overdrive filter while Teensy is installed in pedal enclosure.
   2. Confirm ease of modification without disassembling enclosure.