

System Dynamics Filtering

Preliminary Test Plan

- I. Engineering Specification
 1. Audio Level (ES1)
 - Verify Audio Volume
 2. Hand-on Activity (ES2)
 - Hardware and Software Hand-on
 3. Activity Environment (ES3)
 - Activities must be performed using Laboratory instrumentation
 4. Demonstrative (ES4)
 - Verify filtering is noticeable
 - Software image filter display before and after
 5. Dimensions (ES5,ES6, ES7)
 - Product dimensions 12x12x6” max
 - PCB dimensions 9x12” max
 - Breadboard size 4x3” max
 6. Power (ES8)
 - Power is received to all necessary components
 - Verify hardware operation with 5V DC power
 7. Software Image (ES9)
 - Software filters image 800x600
 8. Hardware Audio Length (ES10)
 - Recording length 10 seconds minimum