Massachusetts Institute of Technology
6.111 Project Checklist
Delta-Sigma Heart Rate Monitor

Level 1 Commitment Goals

1. Generate heartrate bits and display them on monitor
    - Implement analog circuitry
    - Implement Delta-Sigma Analog to Digital Converter
    - Take heart rate bits and display them on the monitor
    - Display beats per minute on the monitor
    - Display will be using ASCII font

Level 2 Intermediate Goals

2. Generate heartrate bits and nicely display them on the monitor
    - Implement analog circuitry
    - Implement Delta-Sigma Analog to Digital Converter
    - Modulation of heart rate signal with sine wave to hear output.
    - Take heart rate bits and display them on the monitor
    - Display beats per minute on the monitor
    - Display visual status on monitor
    - Display will be using custom fonts/pictures

Level 3 Stretch Goals

3. Generate heartrate bits and nicely display them on the monitor with additional waveforms
    - Implement analog circuitry
    - Implement Delta-Sigma Analog to Digital Converter
    - Implement Noise-Shaping
    - Take heart rate bits and display them on monitor
    - Display beats per minute on the monitor
    - Display visual status on monitor
    - Display Fast-Fourier Transform visual on monitor
    - Implement Interpolation for connecting data points
    - Display will be using custom font/pictures