LOONEY TUNES

Preliminary Review Allie, Chris, Kevin, Kyle, Philicia

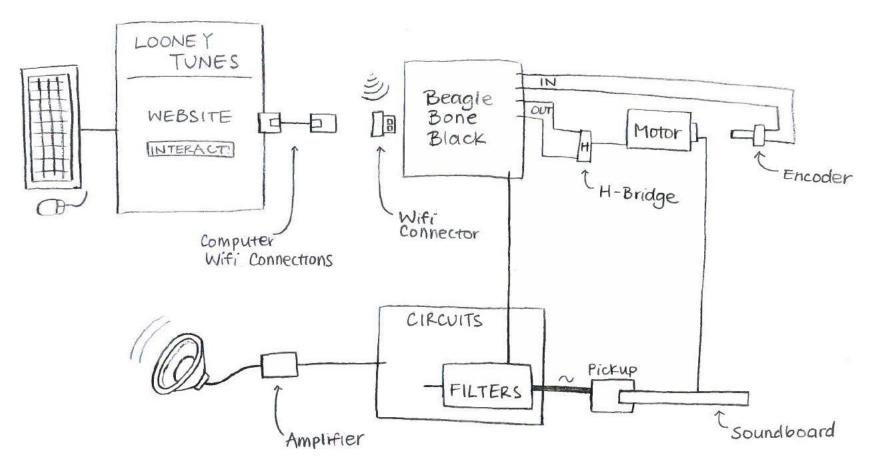


GOALS & DESIGN METRICS



- 1. Create a string instrument that is controlled and played mechanically
- 2. Capable of playing music that a traditional violin cannot (e.g. chords, large interval gaps)
- 3. Connect to an engaging interface for the listener to choose songs

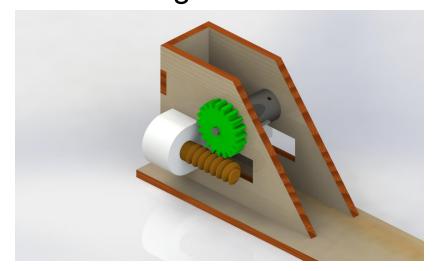
system diagram

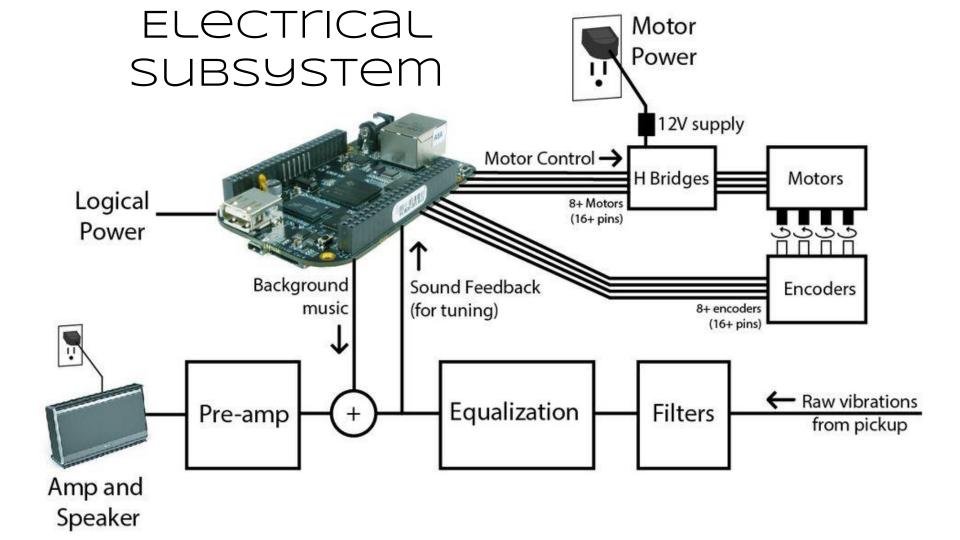


BLOCK CAD



Winding mechanism





SOFTWare & CONTROL



Feedback from the amplifier is used to "tune" the string before playing

Microcontroller controls tension of the string by moving the motor

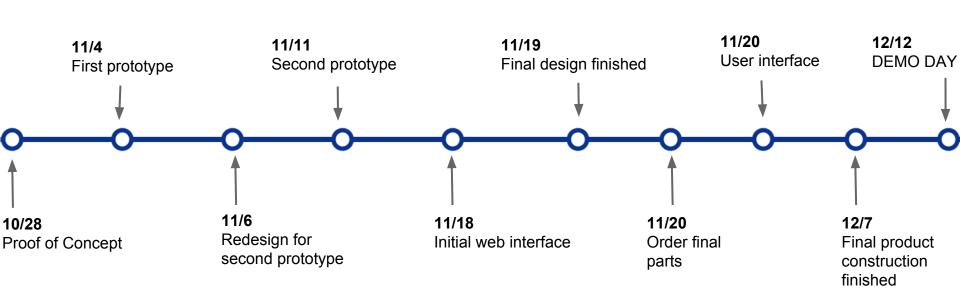
User input (containing what notes to play) is sent to the microcontroller



Control System 2

Encoder is used while playing to correct any error by the motor

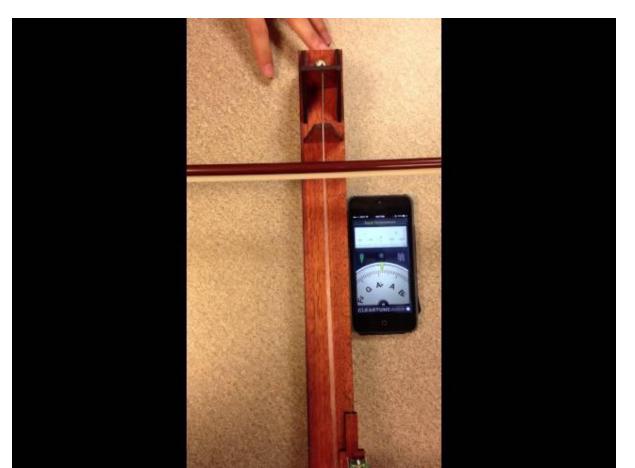
Critical Milestones & Deadlines



Proof of concept



Proof of concept



QUESTIONS?

