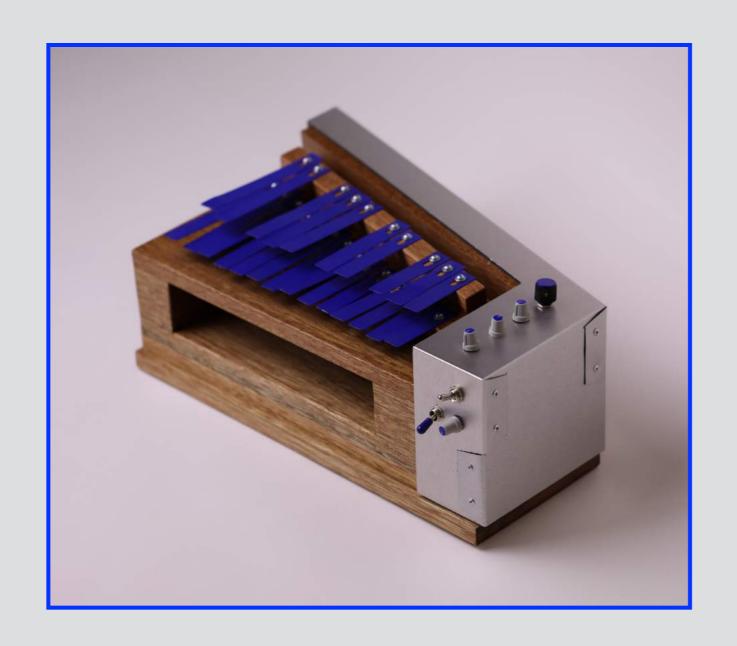
# ELECTRIC

Dennis Valouiski Jualouiski@gmail.com





### OVERVIEW

- piano-esque arrangement of keys
- steel strapping
- piezo pickups
- arduino guitar effects shield
- CNC dibond housing
- mahogany body



# LUDIC DESIGN

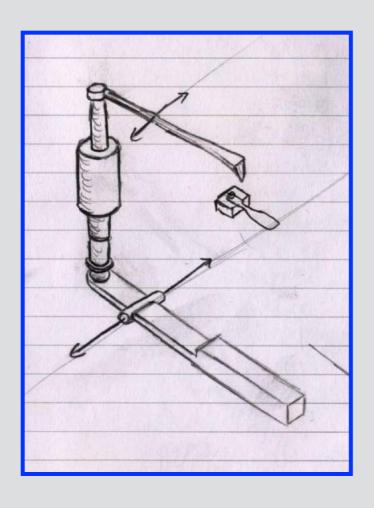
- playful
- "promotes engagement in the exploration and production of meaning"



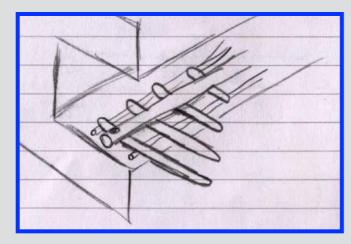
kalimba

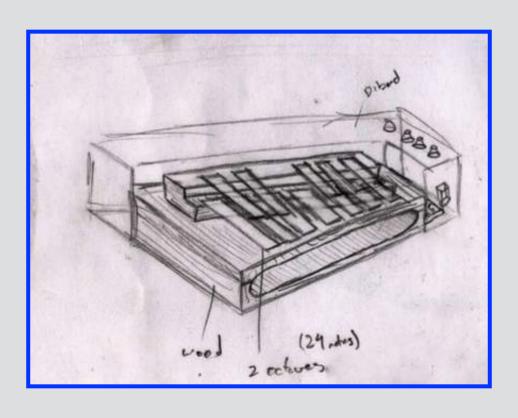
### wurlitzer electric piano

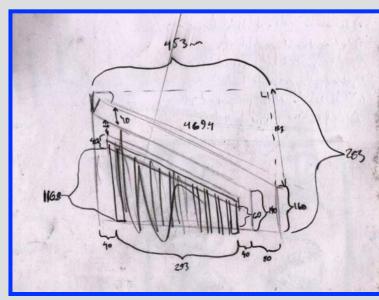


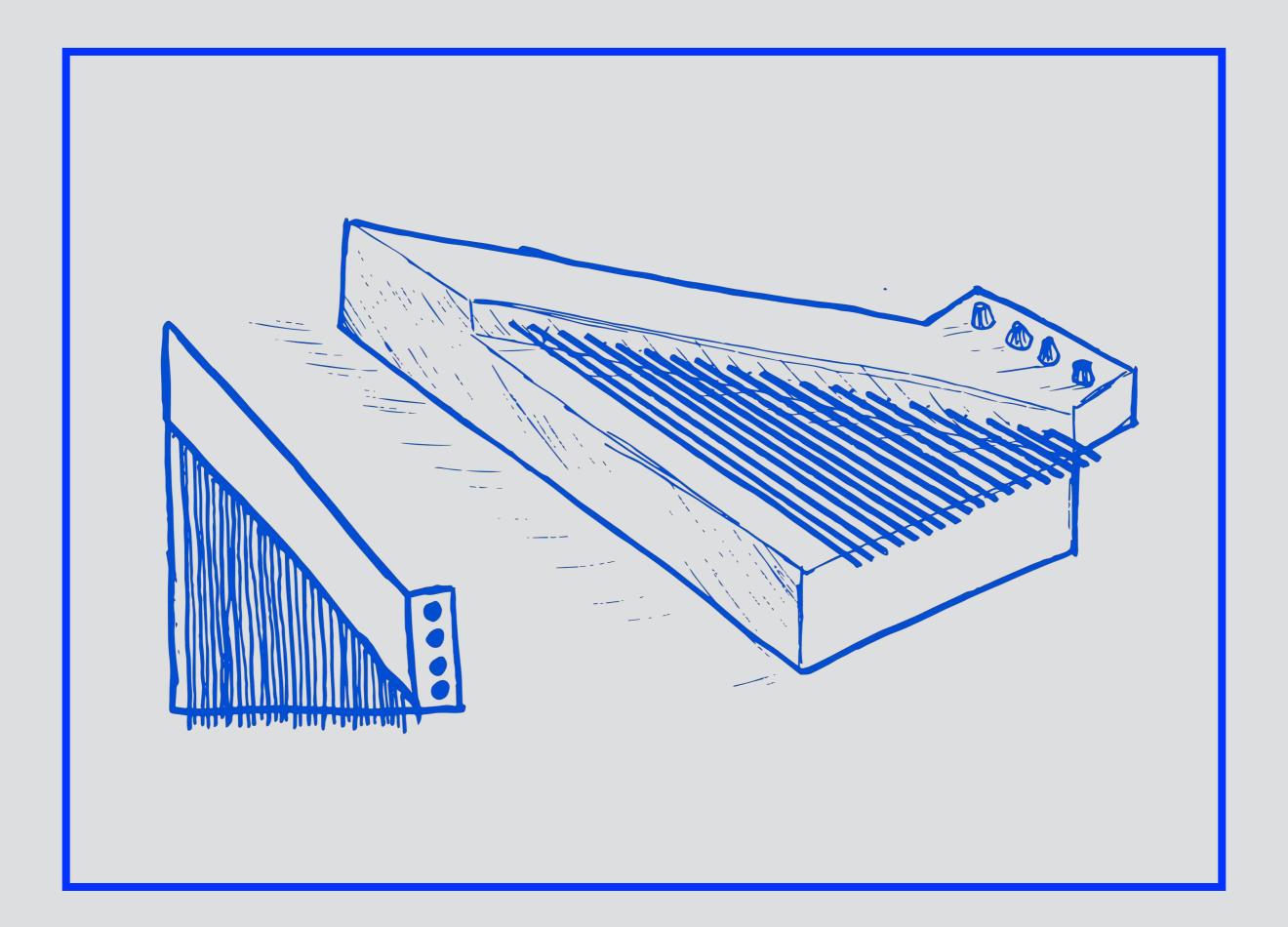


# INITIAL IDEAS

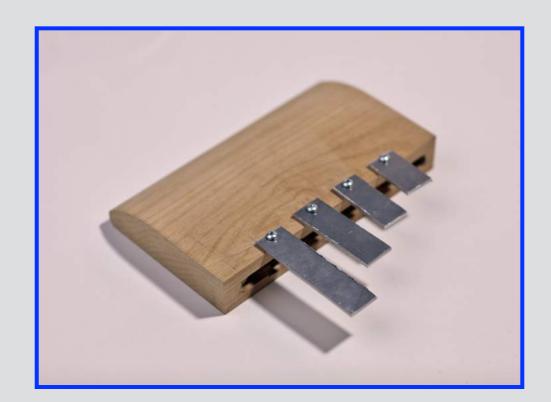




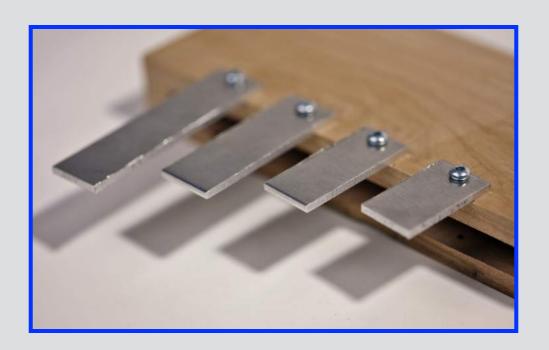






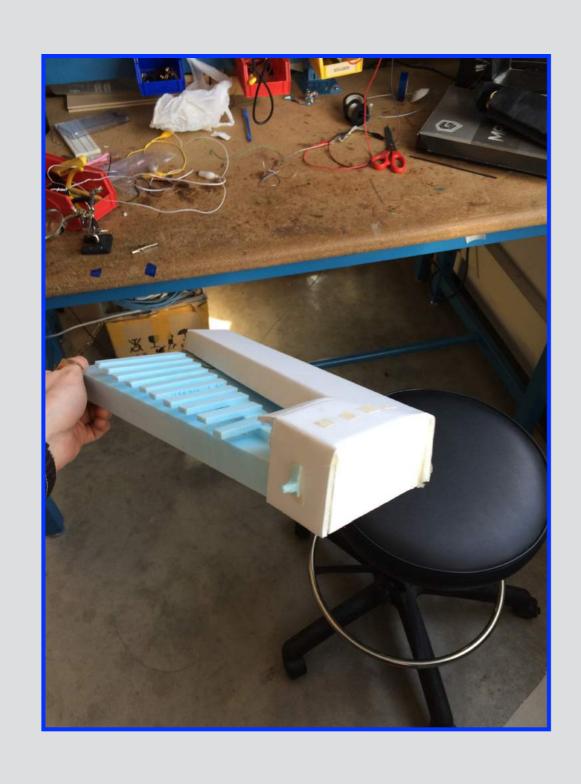






### INITIAL IDEAS CONTINUED

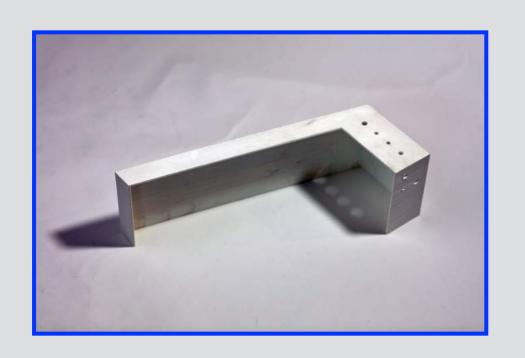
#### INITIAL IDEAS CONTINUED

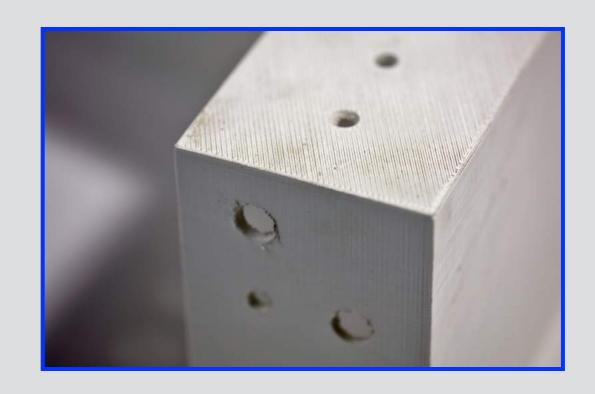




# FLOW

# PROCESS



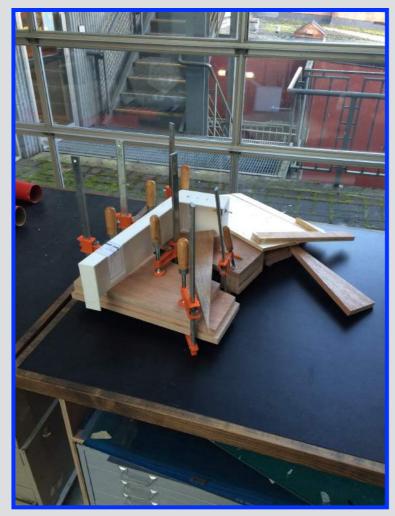










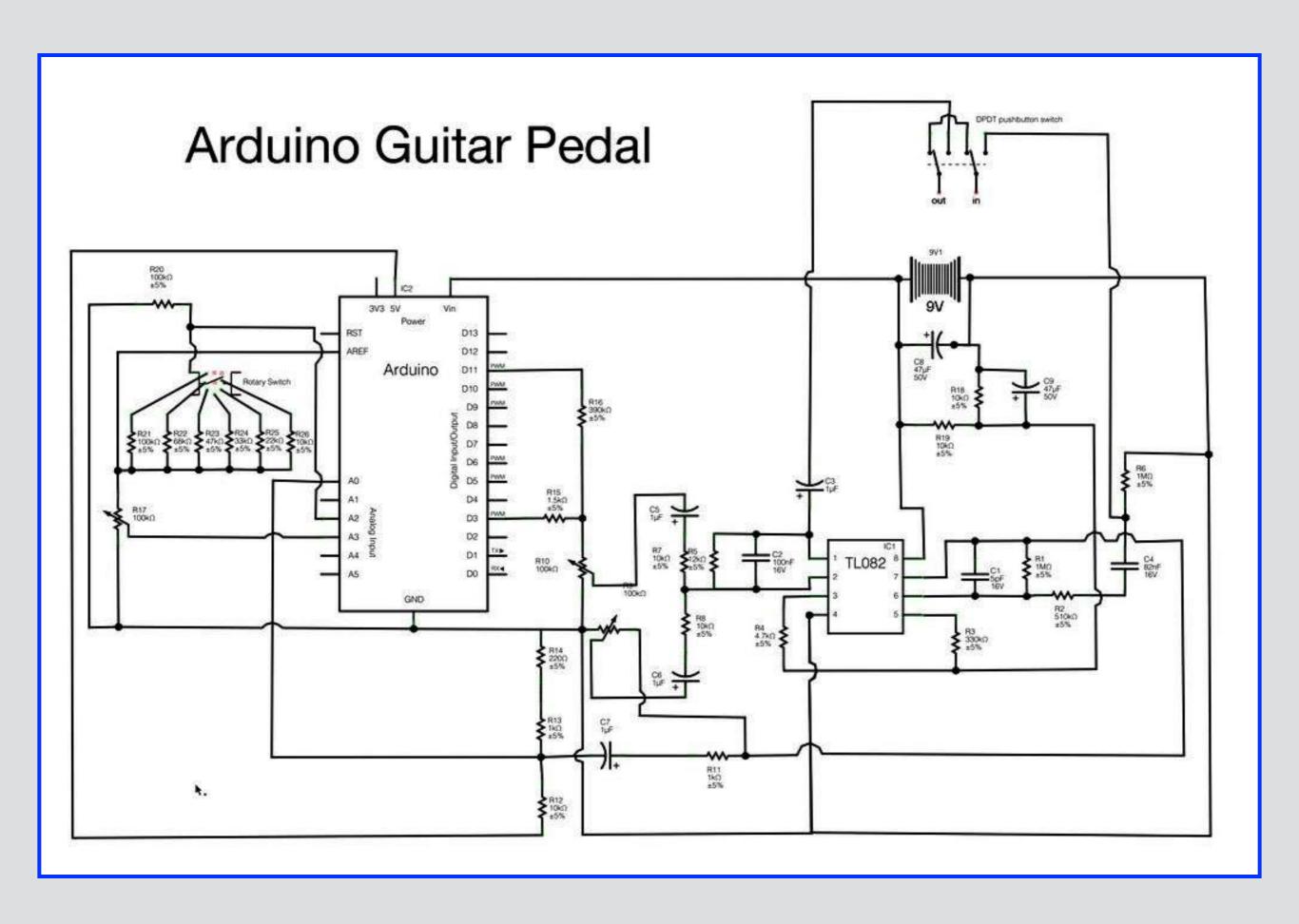


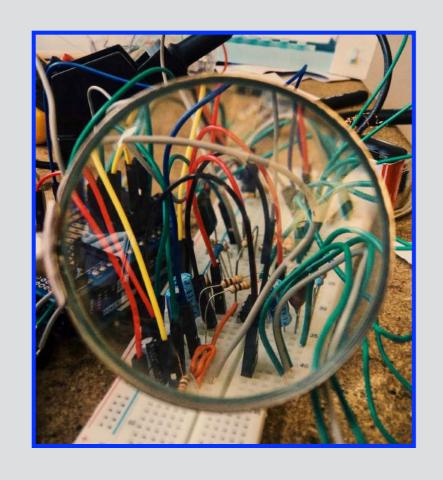
PROCESS CONTINUED

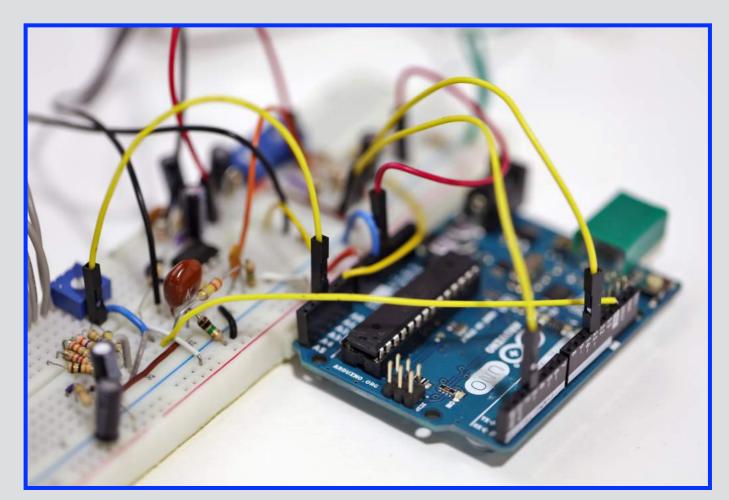
### PROCESS CONTINUED

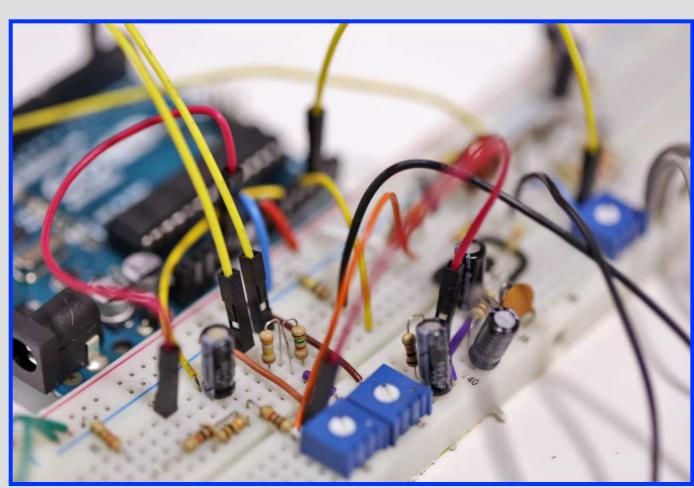




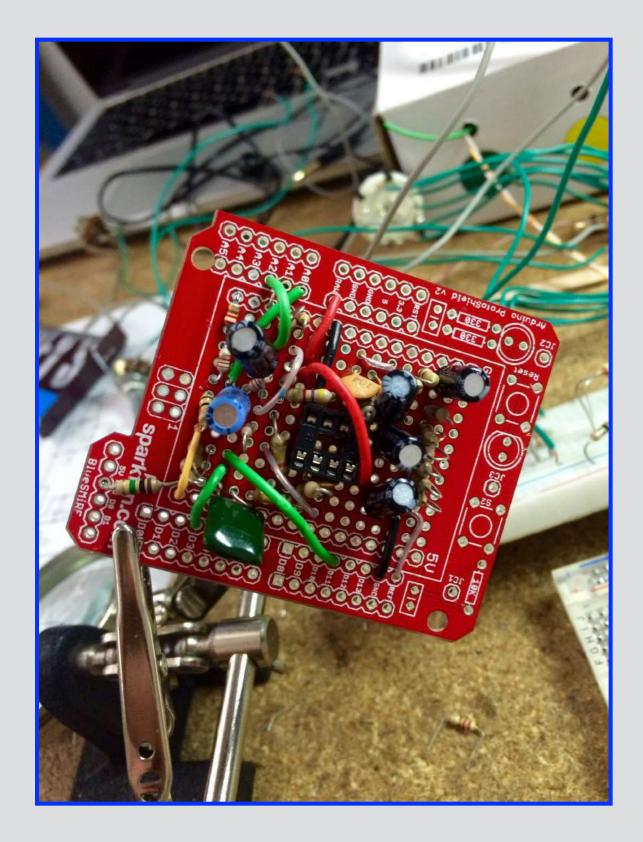


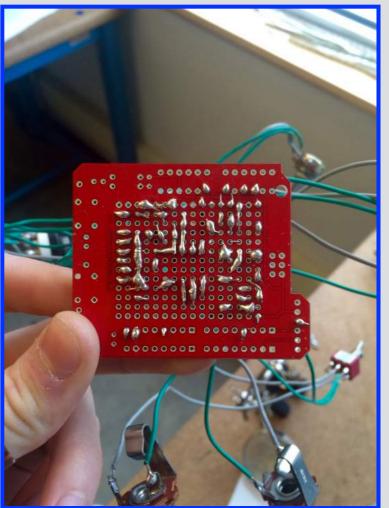


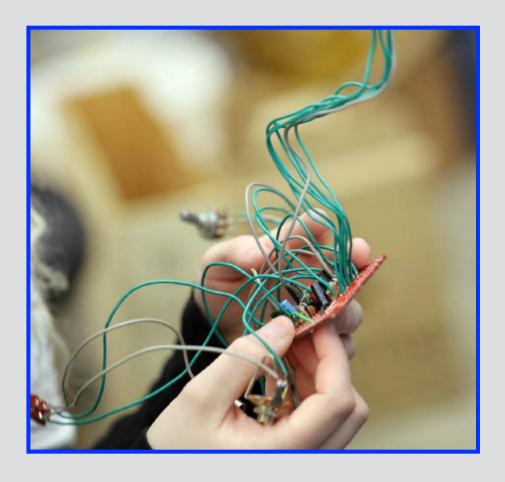


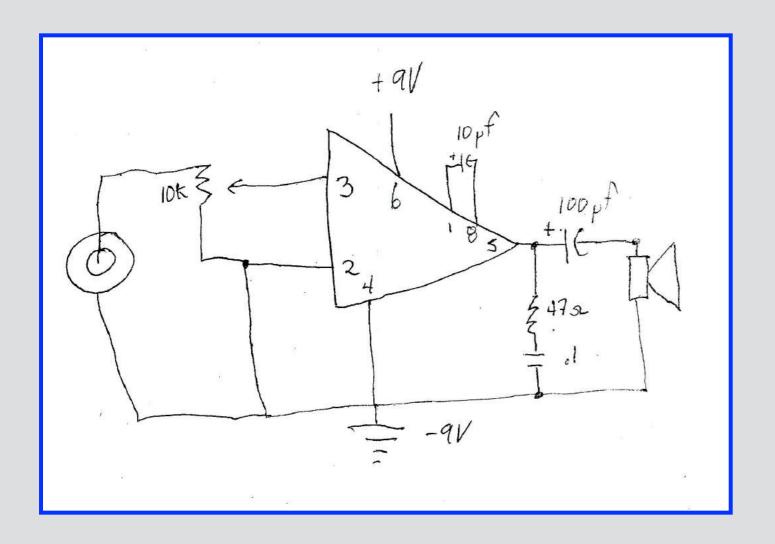




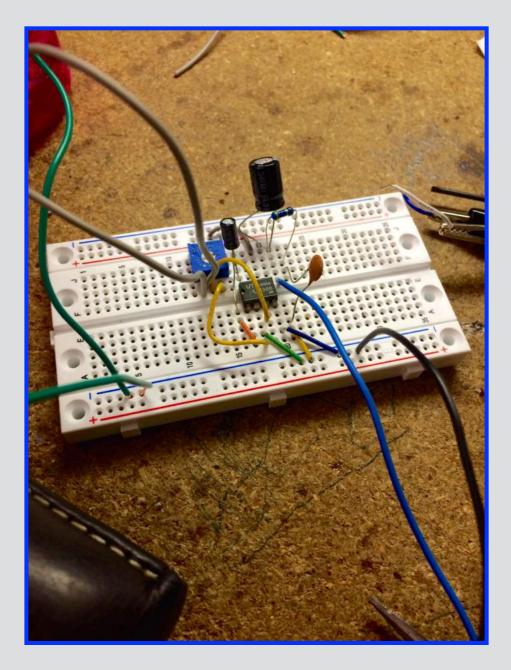








PIEZO CIRCUIT





+1 OCTAVE	0.7071
-1 OCTAVE	1.4144
+1 SEMITONE	0.9715
-1 SEMITONE	1.0293

### KEYS



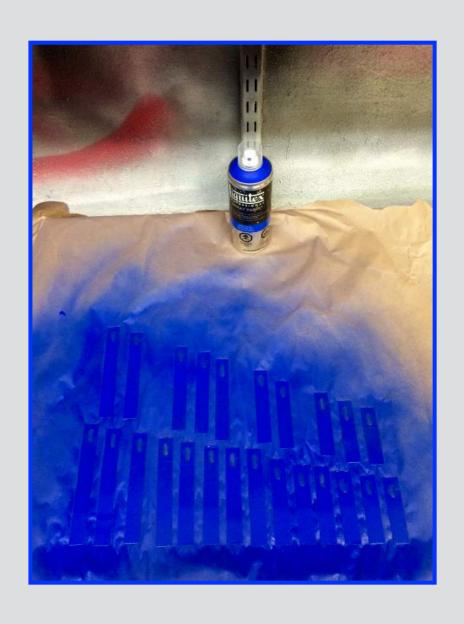


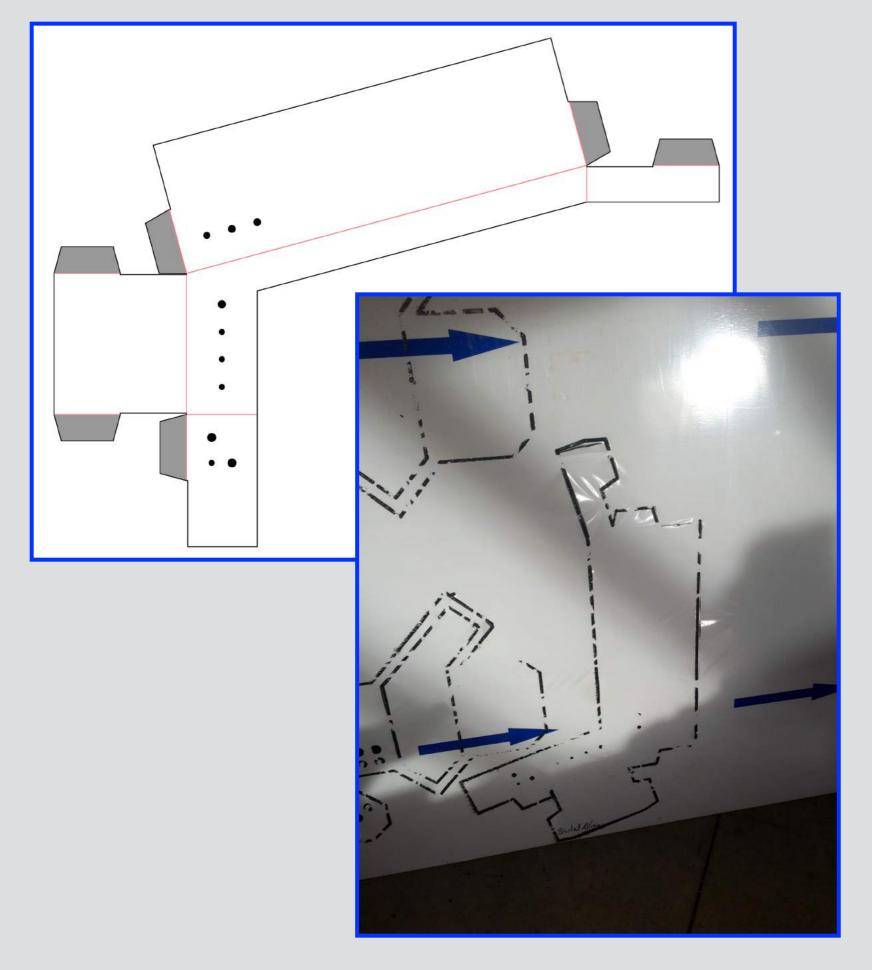


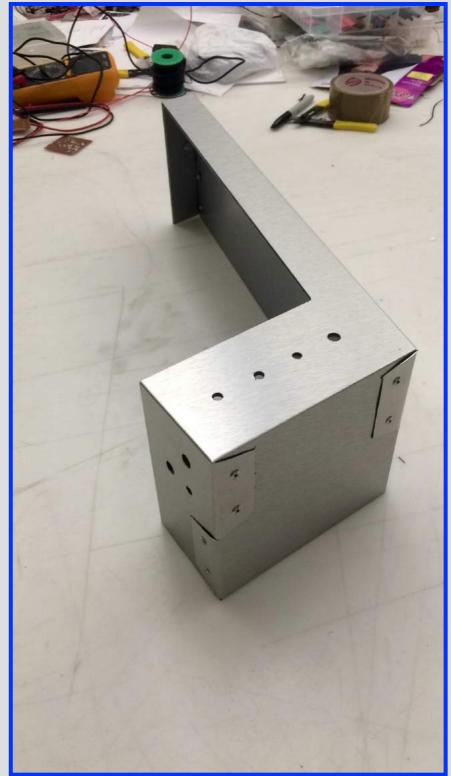




















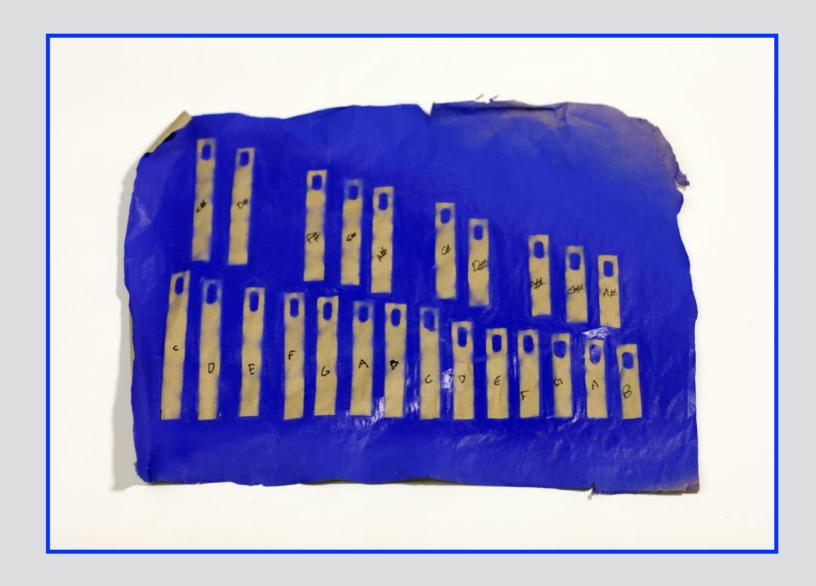






### CHALLENGES

- tuning
- arduino shield





### FURTHER DEVELOPMENT

- use of oscilloscope for shield
- more accurate tuning
- spring steel

# THANKS

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