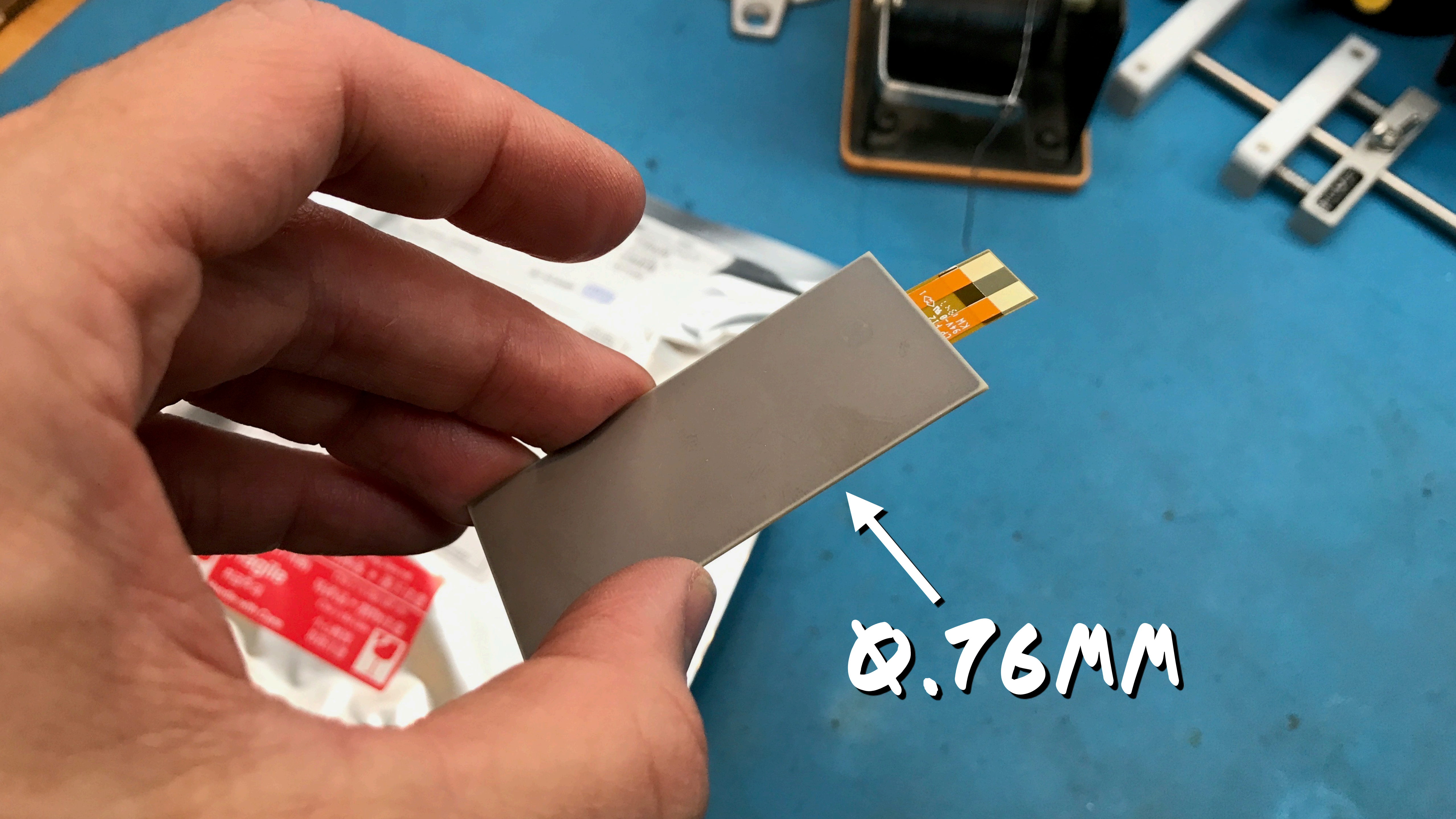


FRESH BEATS

CREATING THE WORLD'S THINNEST BOOMBOX

JOE GRAND AKA KINGPIN

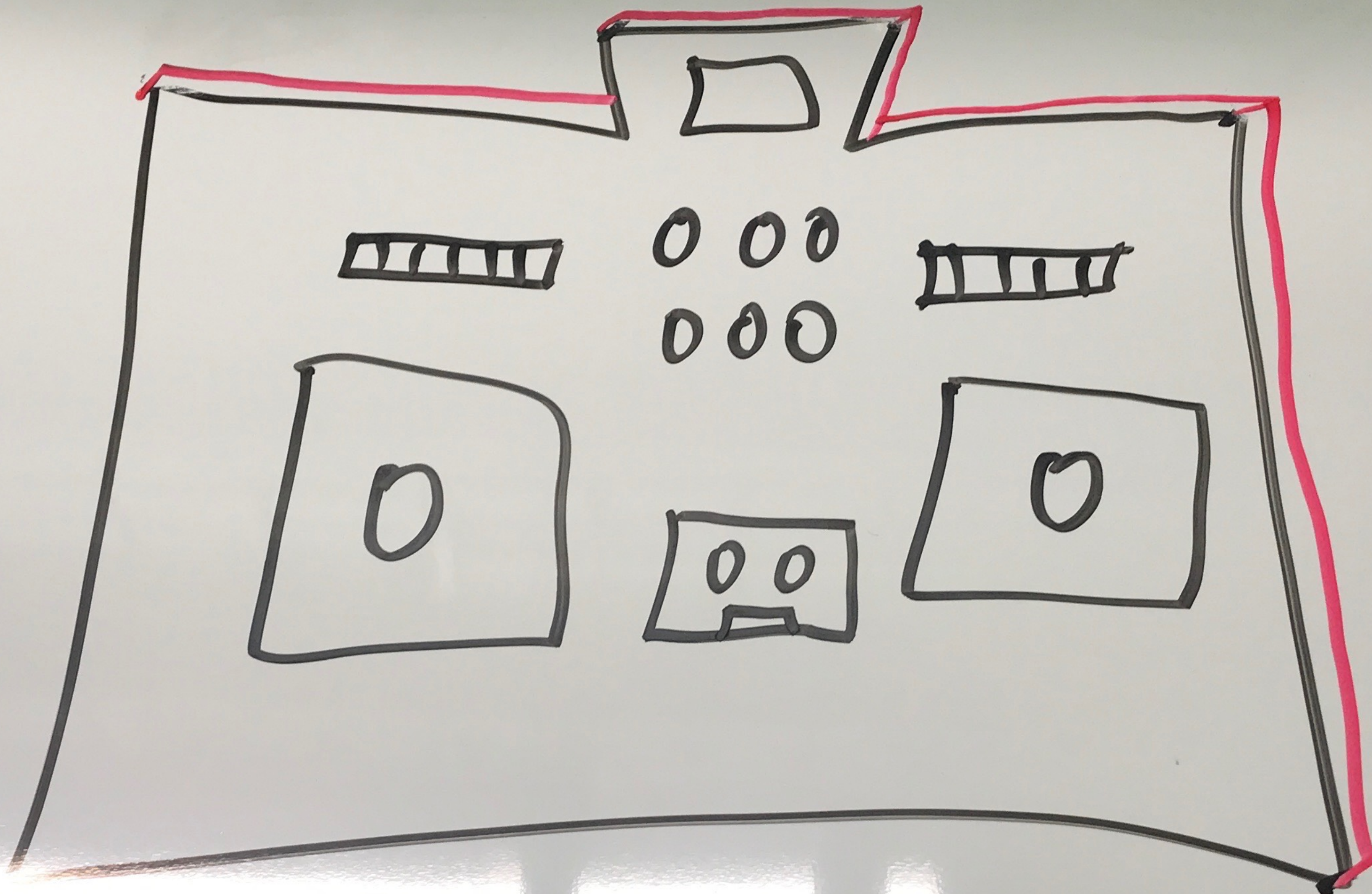
 @JOEGRAND  @JOEGRAND@CHAOS.SOCIAL



0.76MM

This sound is being reproduced by
PiezoListen™.

By using the piezoelectric property of
a change in shape when voltage is applied,



GRANDMASTER FLASH & THE FURIOUS FIVE



L.L. COOL J

	18.5	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	MHz
STEREO	SW ₁ SHORT WAVE-3									
	SW ₂ SHORT WAVE-1	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	18.5
	SW ₃ SHORT WAVE-4	6.0		7.0	8.0	9.0	10.0	11.0		
POWER	SW ₄ SHORT WAVE-2		5.95		6.00	6.0	6.0	6.15	6.20	6.5
	SW ₅ SHORT WAVE-2	3.5		4.0	4.5	5.0	5.5	6.0		
	SW ₆ SHORT WAVE-1	1.6	1.8	2.0			3.0			
AM	AMplitude Modulation	540	600	700	800	900	1000	1200	1400	1600
FM		88	90	92	94	96	98	100	102	104



METER/MODE: STEREO, MONO, SILENCE, MUTE, METER OFF

BASS: MIN, MAX

TREBLE: MIN, MAX

BALANCE: LEFT, RIGHT

VOLUME: MIN, MAX

LOUDNESS: ON, OFF

FUNCTION: PHONO, RADIO, TAPE

REC SYSTEM: SURE ASSIST, AUTO, TAPE, TAPE

REC LEVEL: LEFT, RIGHT

MIXING MIC LEVEL: MIN, MAX

TAPE: REVERSE, NORMAL

TIME: 000

MULTI MUSIC SCANNER: 1, 2, 3, 4, 5

STOP, REC, PAUSE, REVIEW, EJECT, PLAY, CUE, REC MUTE

EJECT

FULL LOGIC

JVC

PHONO MC 1, 2

A promotional photograph for the Beastie Boys. Three members of the group are posed on concrete steps in front of a wall covered in graffiti. They are wearing matching black tracksuits with red stripes on the sleeves and pants. The member on the left is wearing a white cap with 'BEASTIE BOYS' written on it. The member in the center is wearing sunglasses and a similar white cap. The member on the right is wearing red goggles. A large, silver boombox sits on the ground in front of them. The background wall has various graffiti tags, including 'NY.P.' and 'STRE.'. The overall aesthetic is classic hip-hop from the late 1980s or early 1990s.

**BEASTIE
BOYS**

Solid Gold Hits







Pirate
audio

DAC LINE OUT LCD

The Brothers Grimm
DEFCON 15 Team
Oogato Badge Hack
(Ode to the
DEFCON) Badgez

A
B

X
Y

LINE OUT



AUDIO AMP

PI

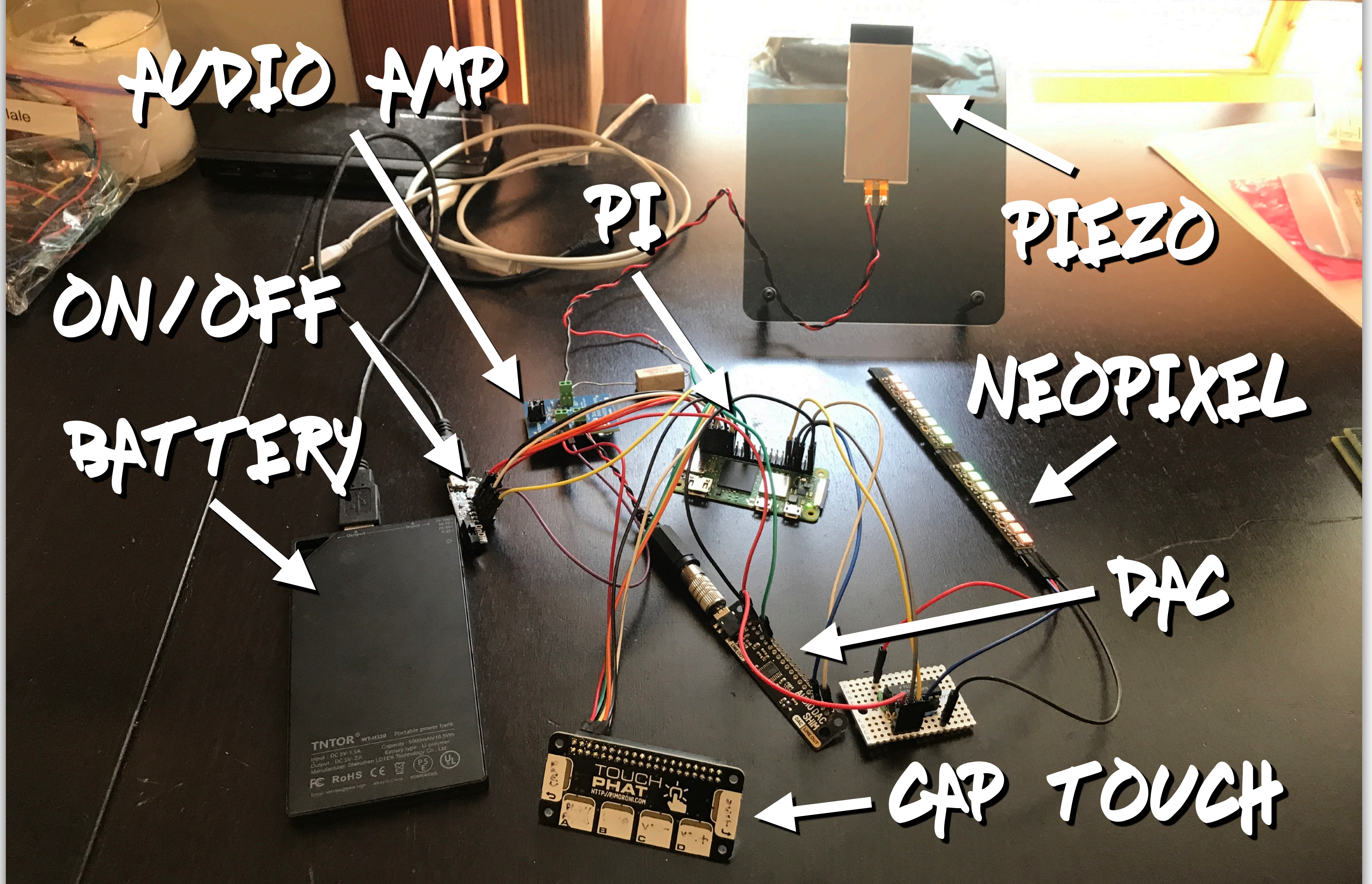
PIEZO

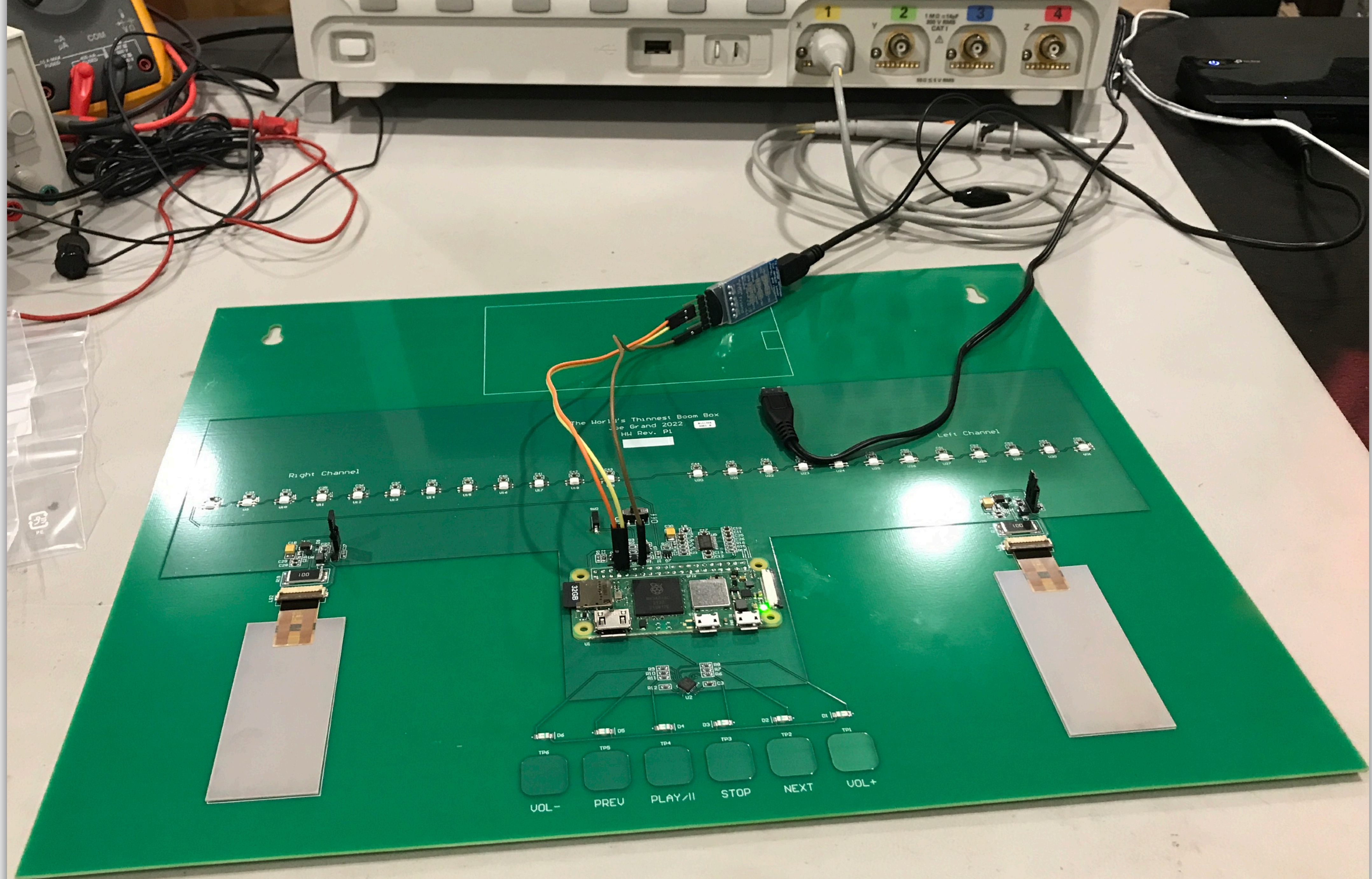
**ON/OFF
BATTERY**

NEOPIXEL

DAC

CAP TOUCH



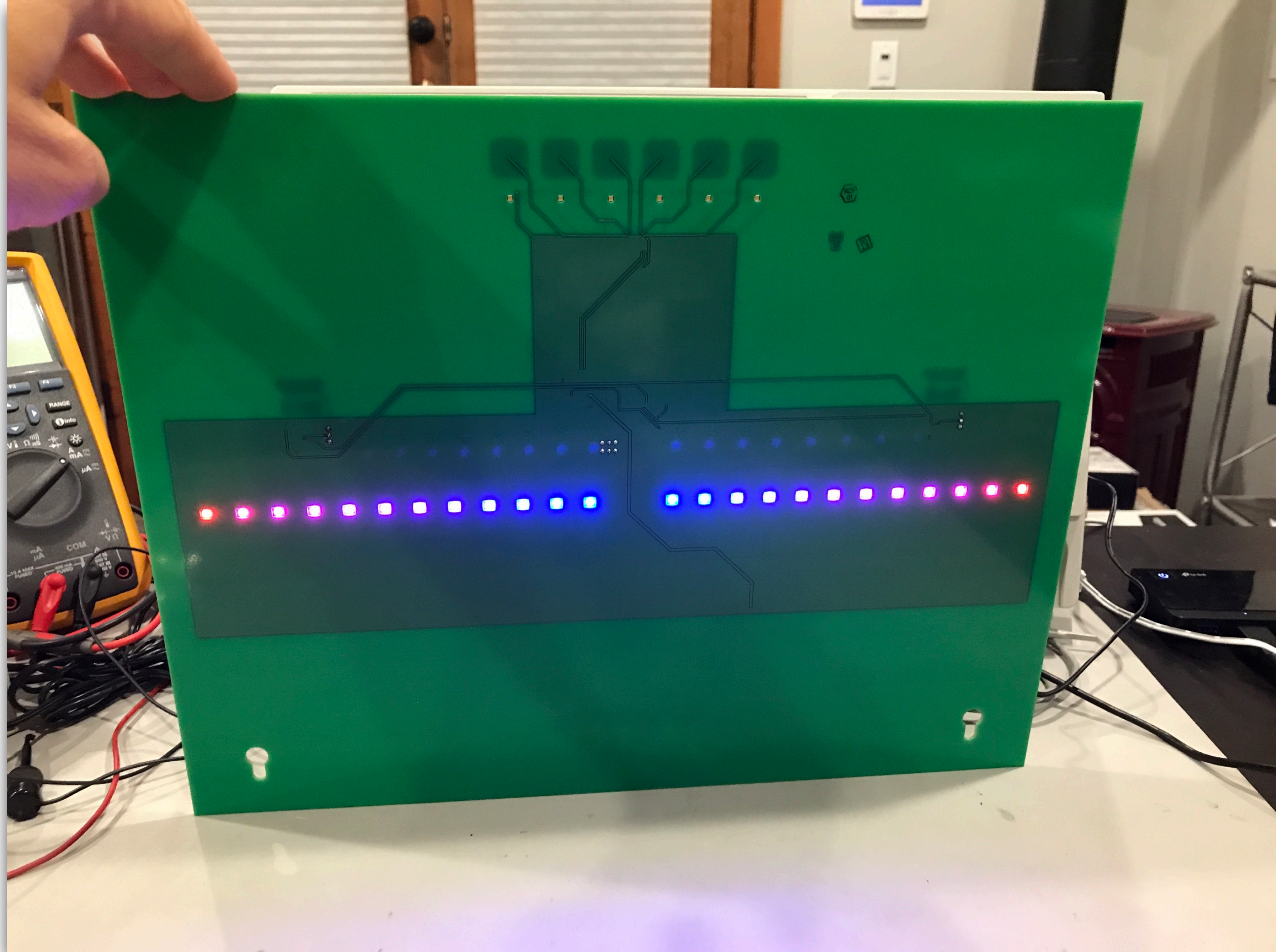


The World's Thinnest Boom Box
Rev. P1

Right Channel

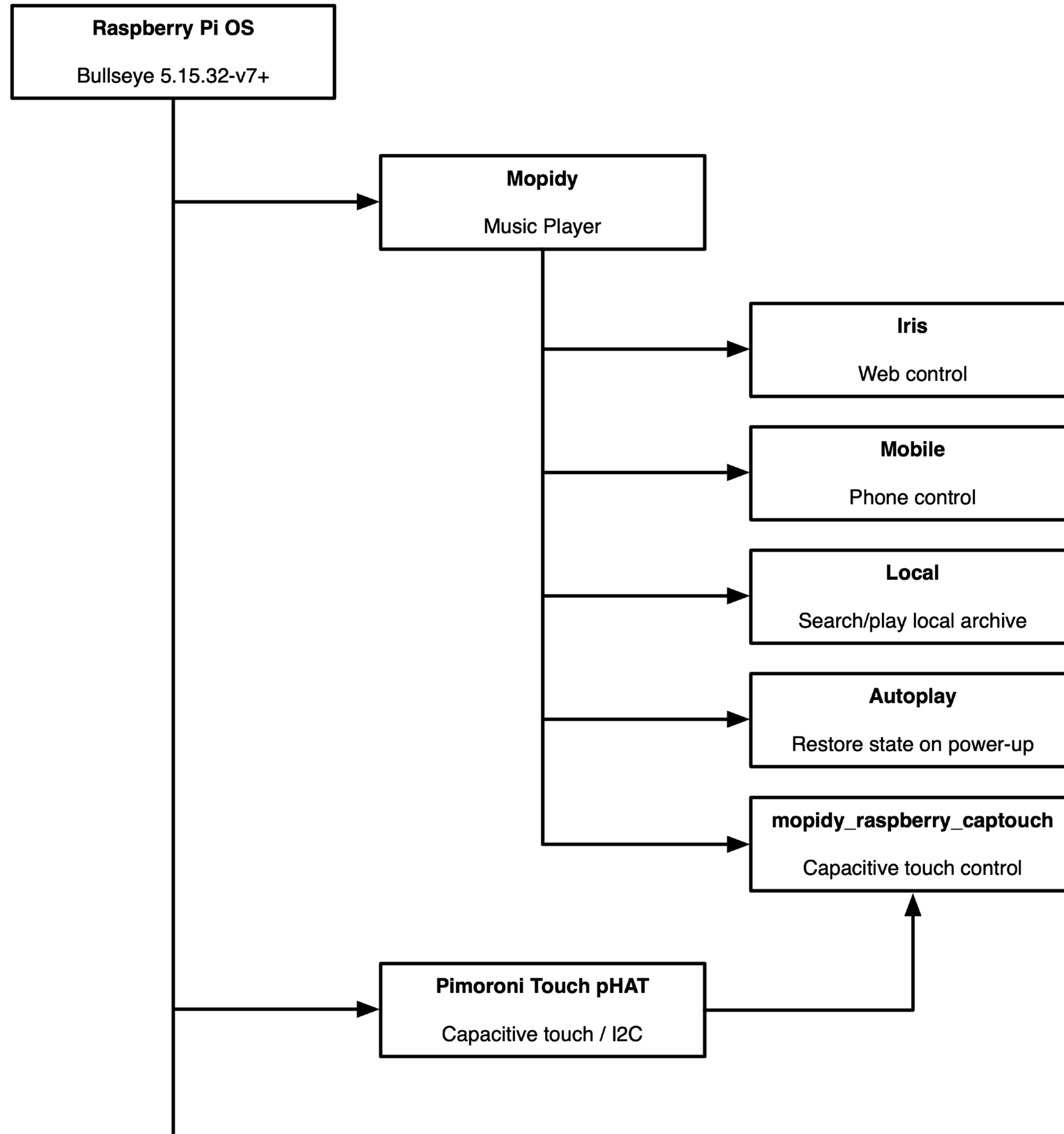
Left Channel

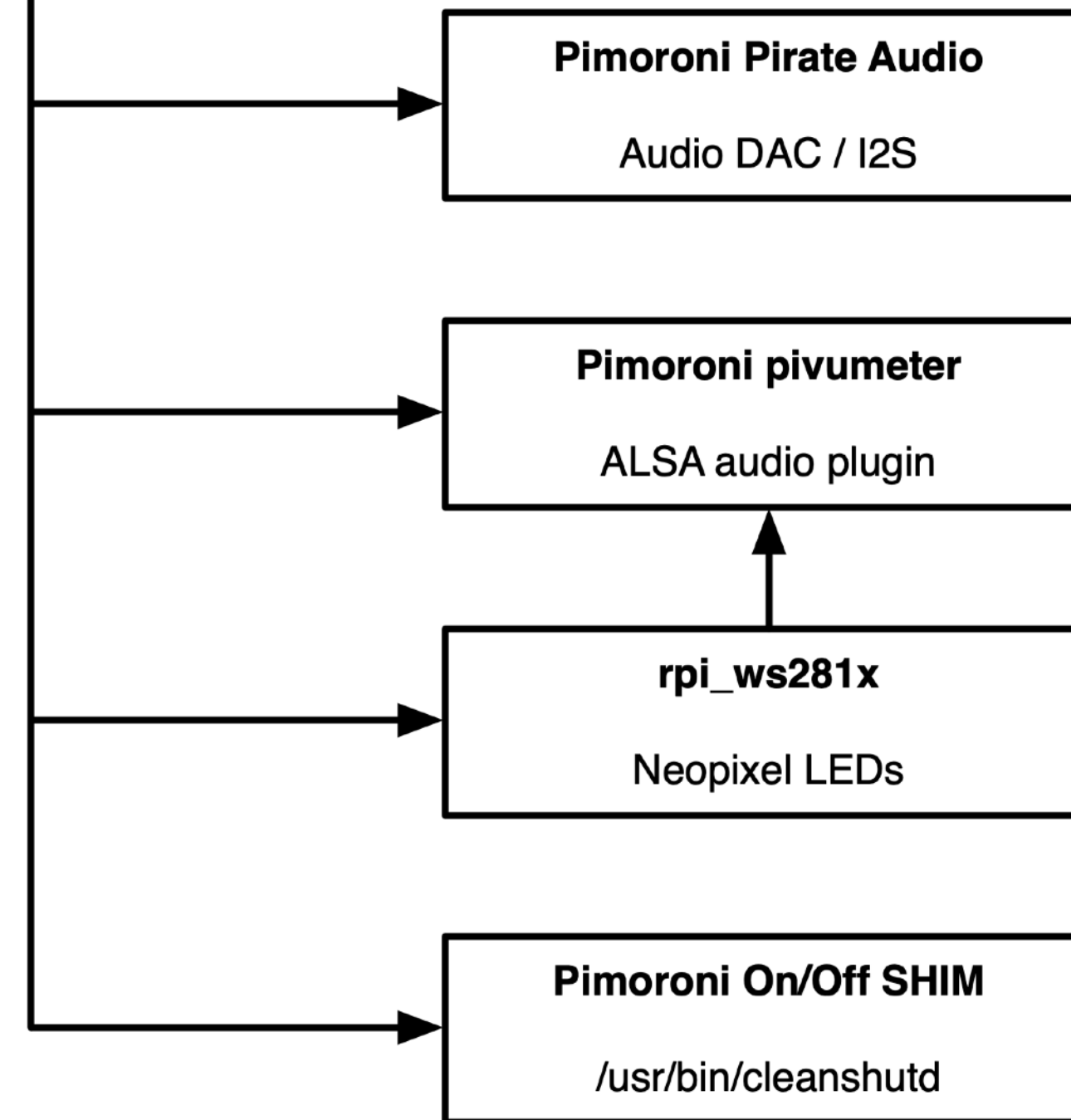
TP6
TP5
TP4
TP3
TP2
TP1
UOL -
PREV
PLAY/II
STOP
NEXT
UOL +



Mopidy is an extensible music server written in Python.

Mopidy plays music from local disk, Spotify, SoundCloud, TuneIn, and more. You can edit the playlist from any phone, tablet, or computer using a variety of MPD and web clients.

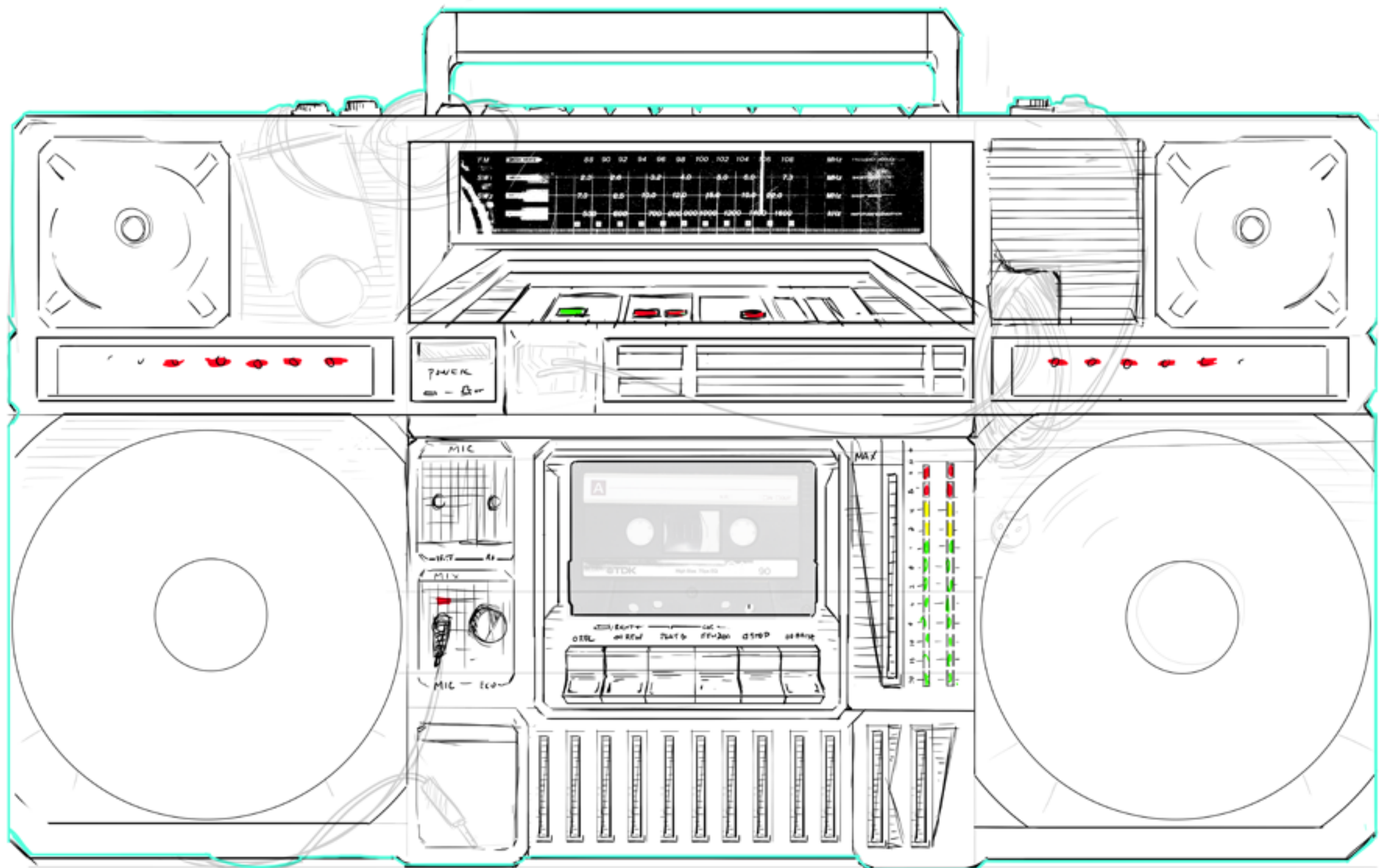


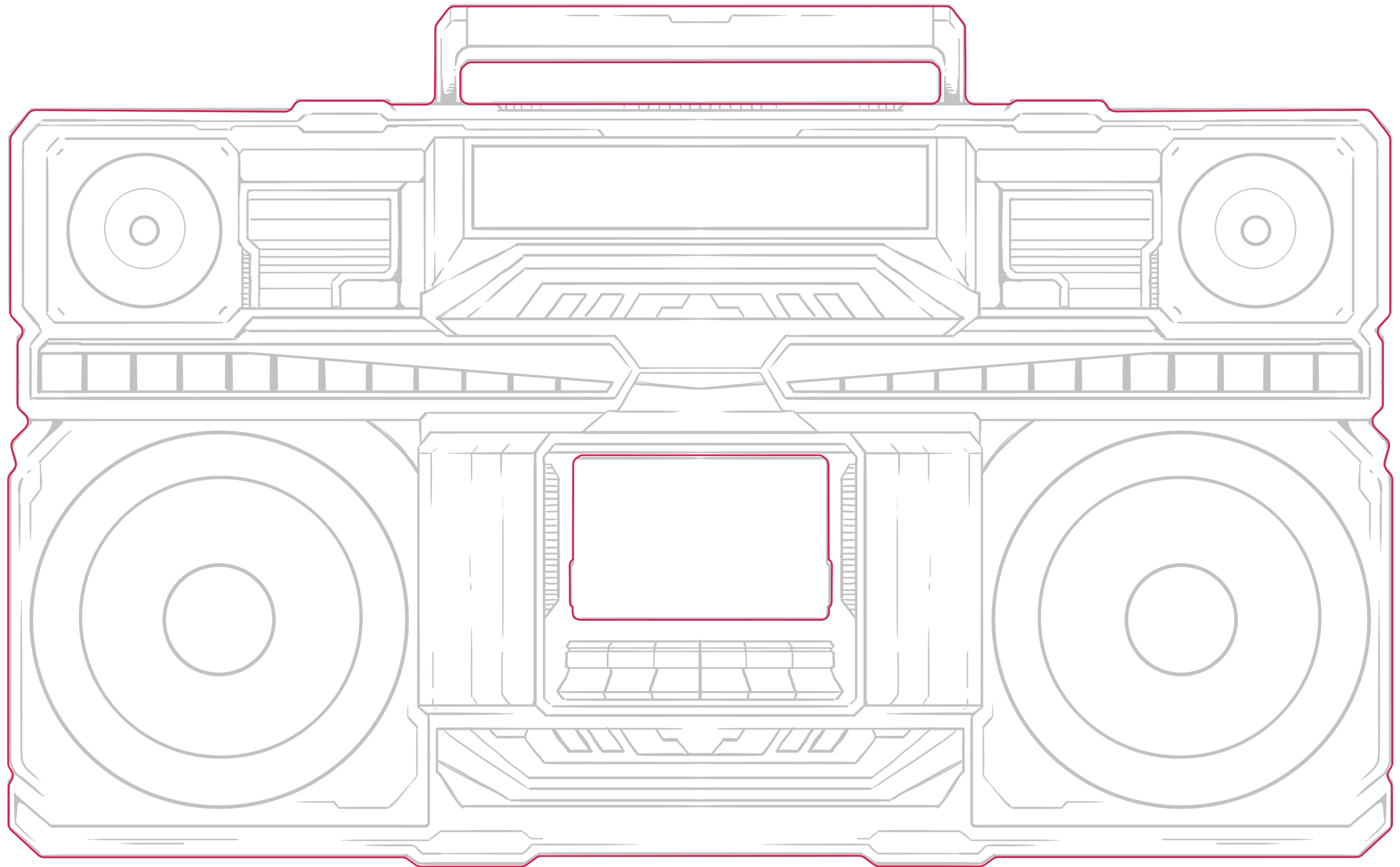


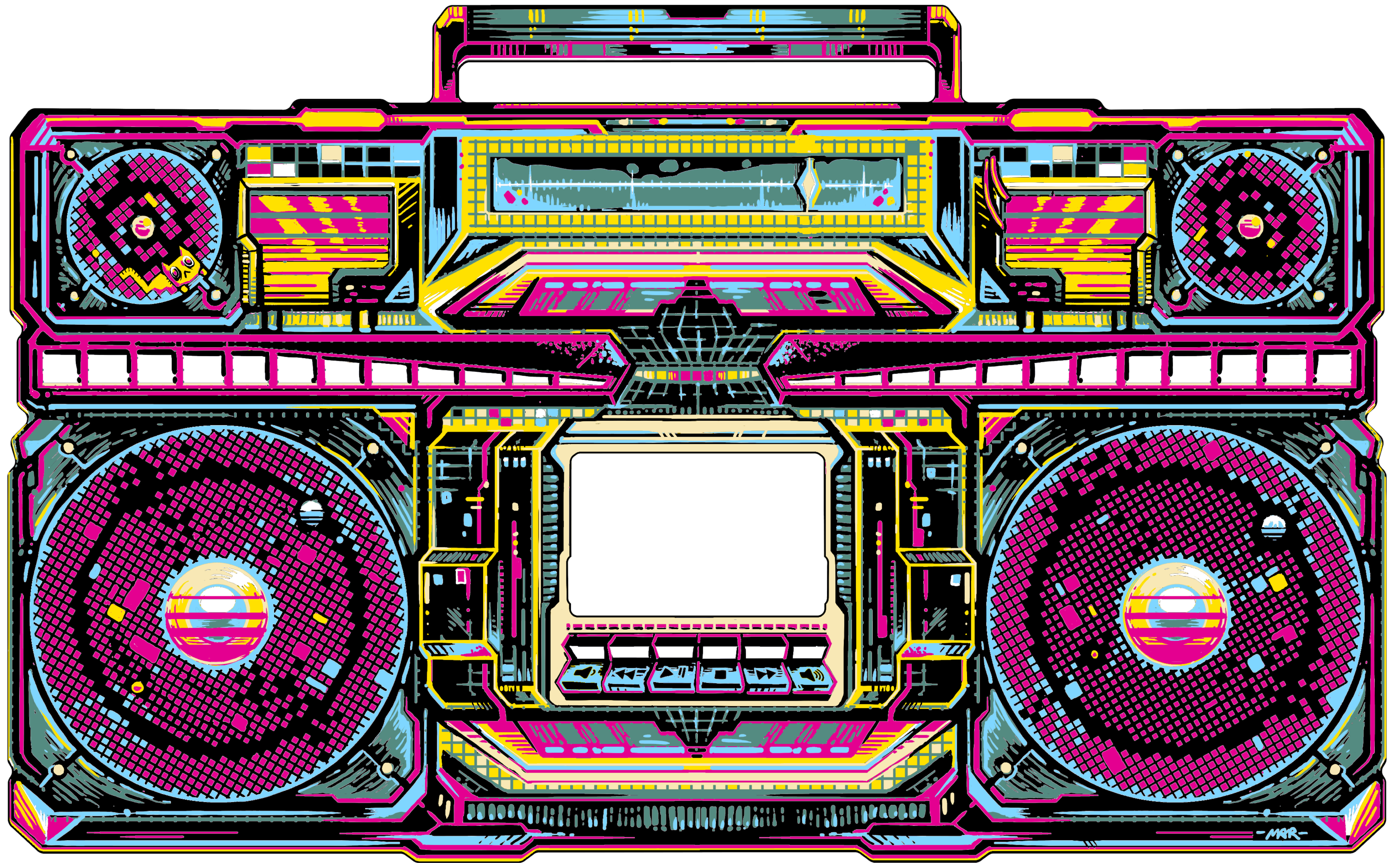


Mar Williams | Artist

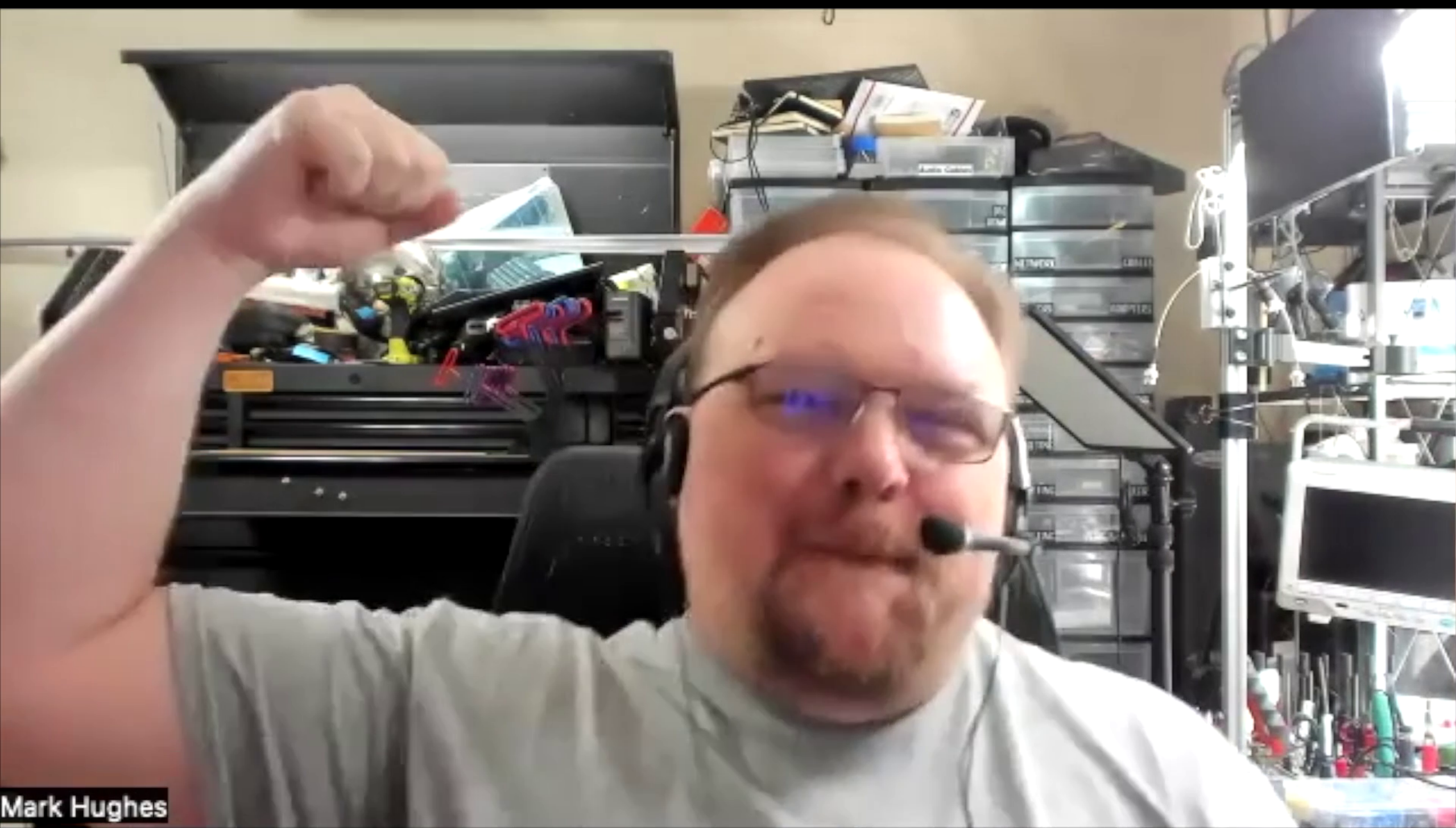








-MRR-



Mark Hughes | PCB Design Consultant



ROYAL CIRCUIT SOLUTIONS

Customer:

Part Num:

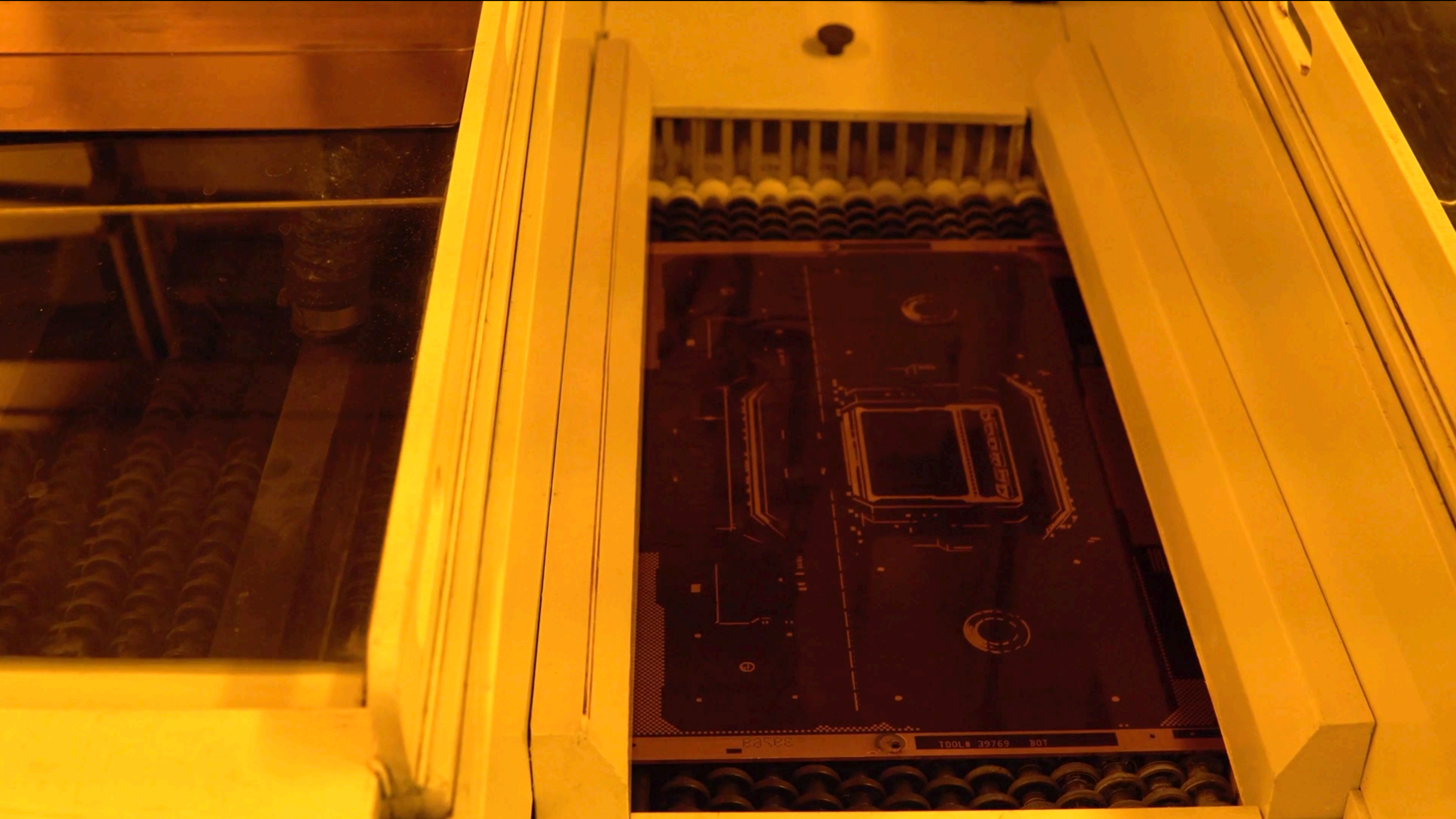
Part Rev:

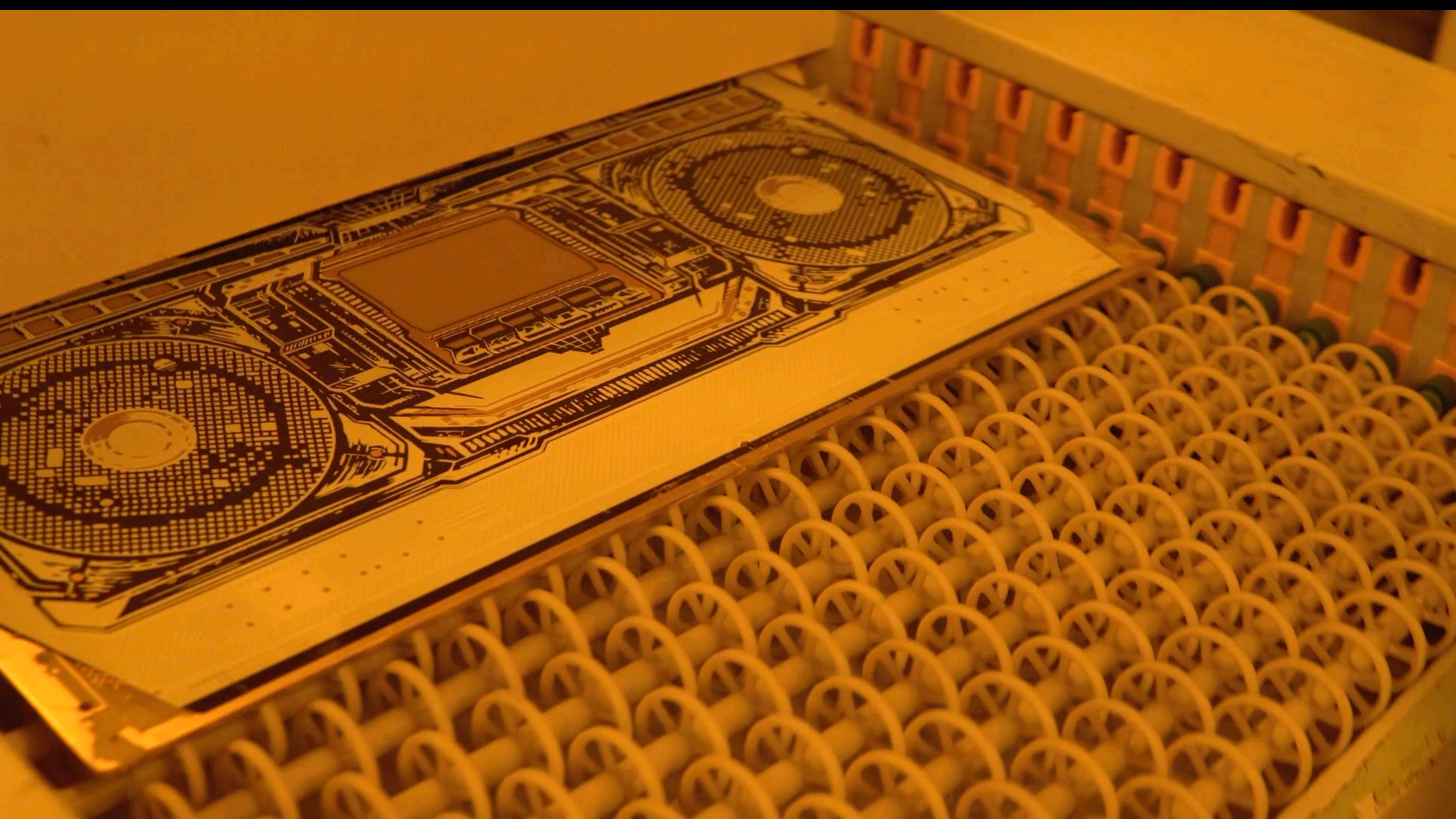
Job Name:

User Name:

Req. Thick: 125.0

Layer	Base CU / Plt	Thick	Type	Stackup	Subs	Imp	Material	Dk	Df
Soldermask		0.60					Taiyo-SM - Green	3.90	0.033
Lyr1	0.5oz / Std	2.70	S						
Prepreg		4.12					370HR - 106_76% 370HR - 106_76%	3.70	0.026
Lyr2	1oz	1.20	P						
Core		4.00					370HR - 4.0mils	4.23	0.021
Lyr3	1oz	1.20	P						
Prepreg		4.82					370HR - 106_76% 370HR - 1080_66%	3.79	0.025
Blank		0.00	B						
Core		90.60					370HR - 93.0mils	4.04	0.021
Blank		0.00	B						
Prepreg		5.30					370HR - 1080_66% 370HR - 106_76%	3.79	0.025
Blank		0.00	B						
Core		4.00					370HR - 4.0mils	4.23	0.021
Blank		0.00	B						
Prepreg		4.60					370HR - 106_76% 370HR - 106_76%	3.70	0.026
Lyr4	0.5oz / Std	1.80	S						
Soldermask		0.60					Taiyo-SM - Green	3.90	0.033

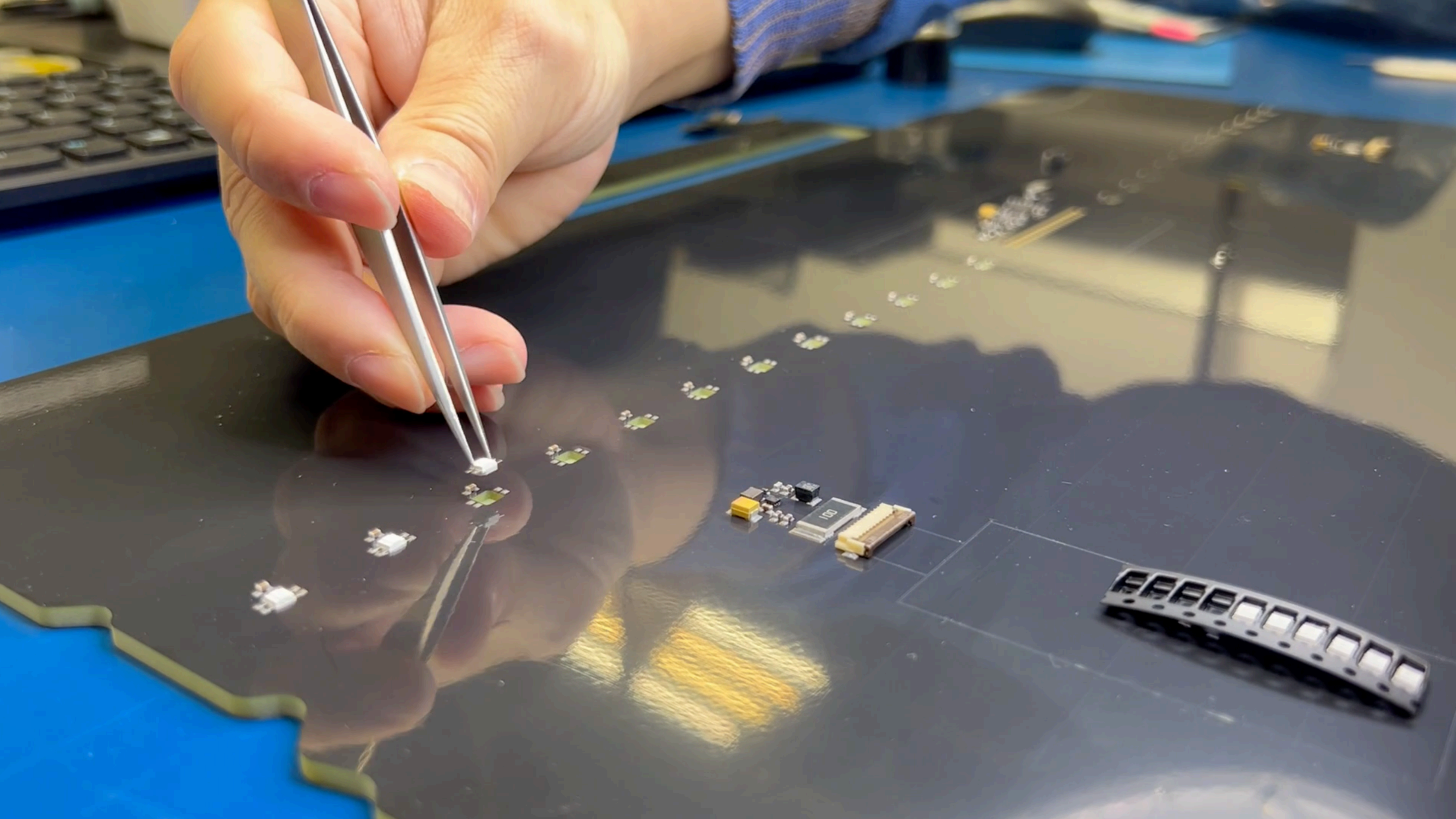


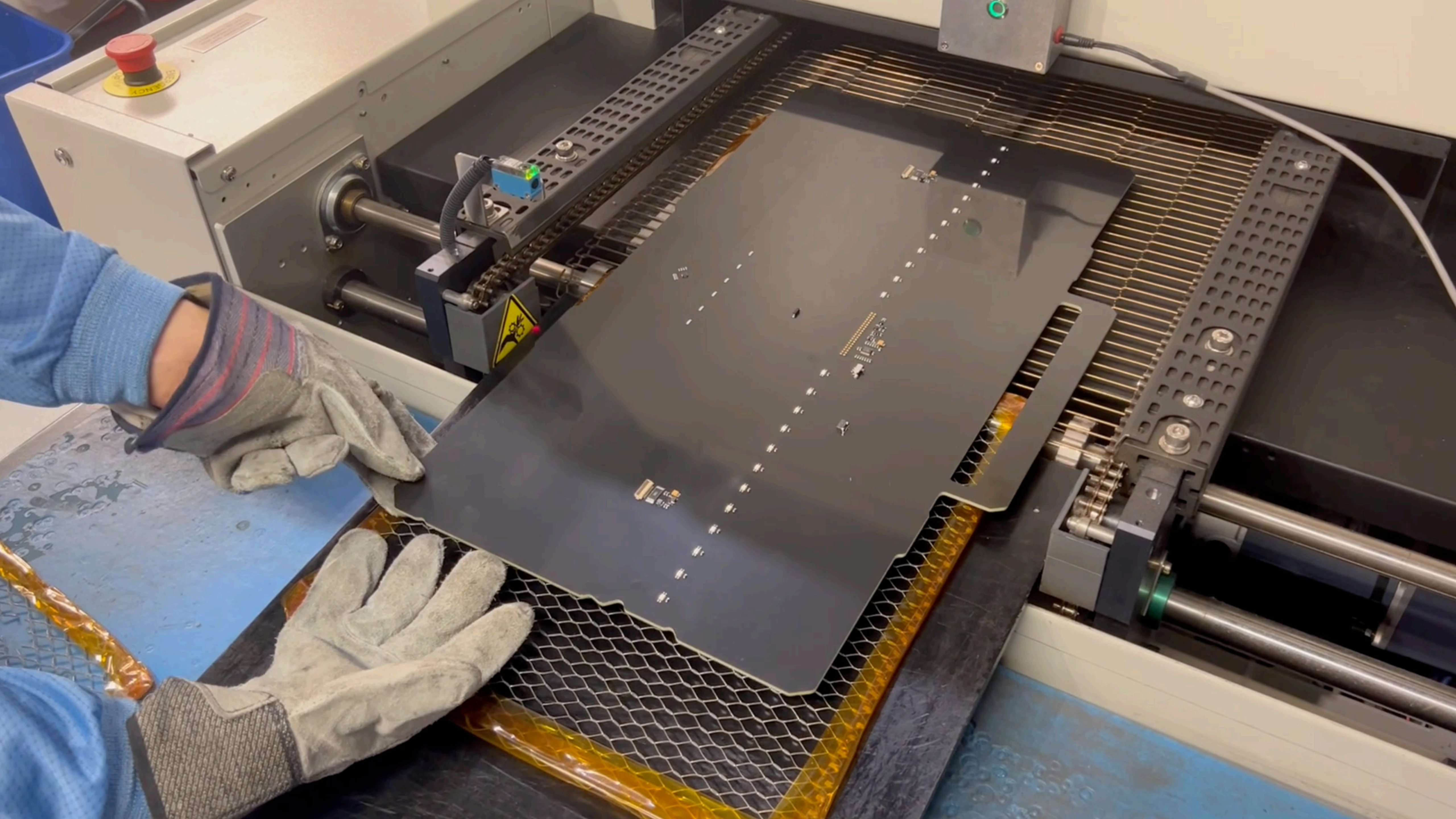


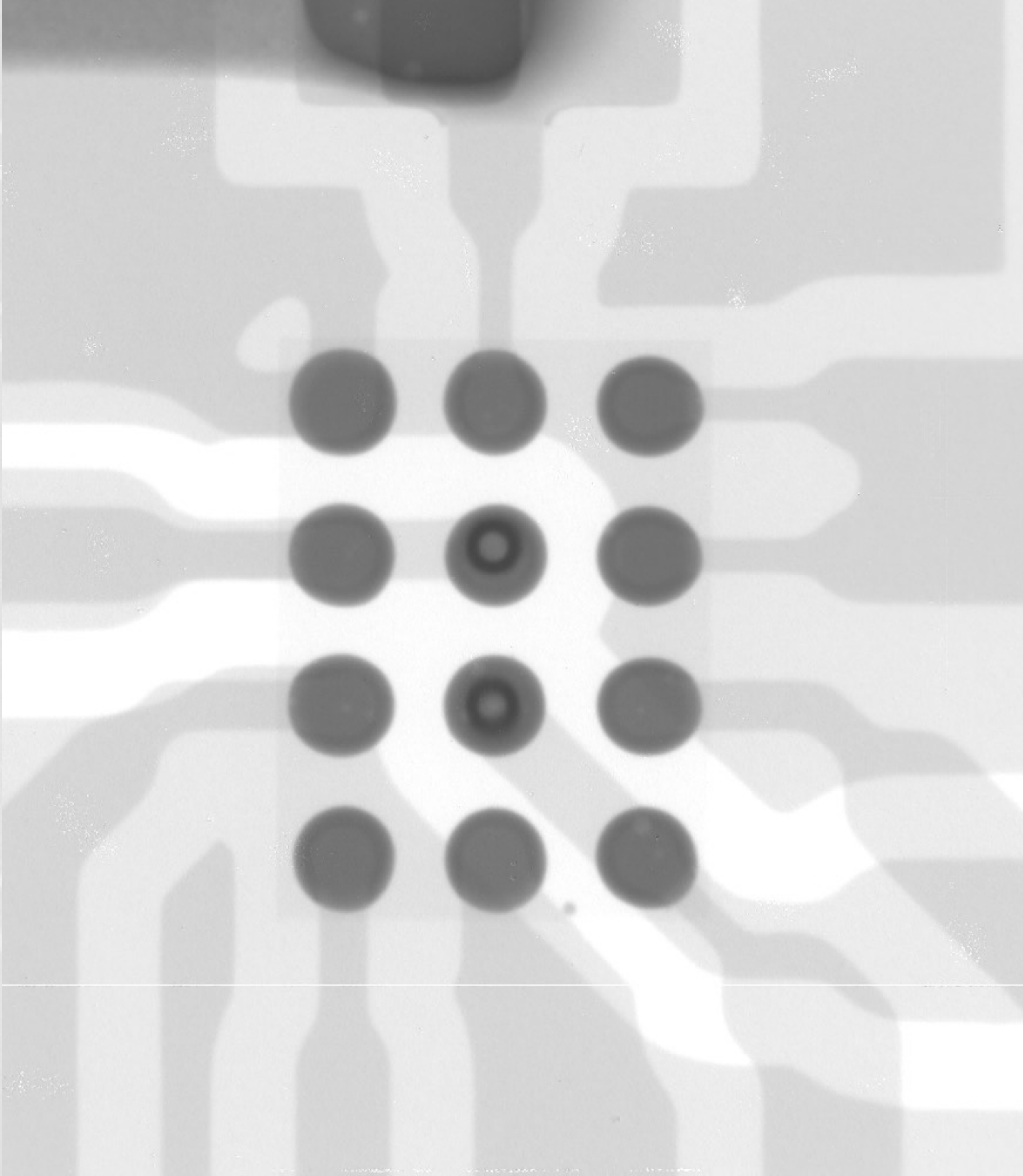
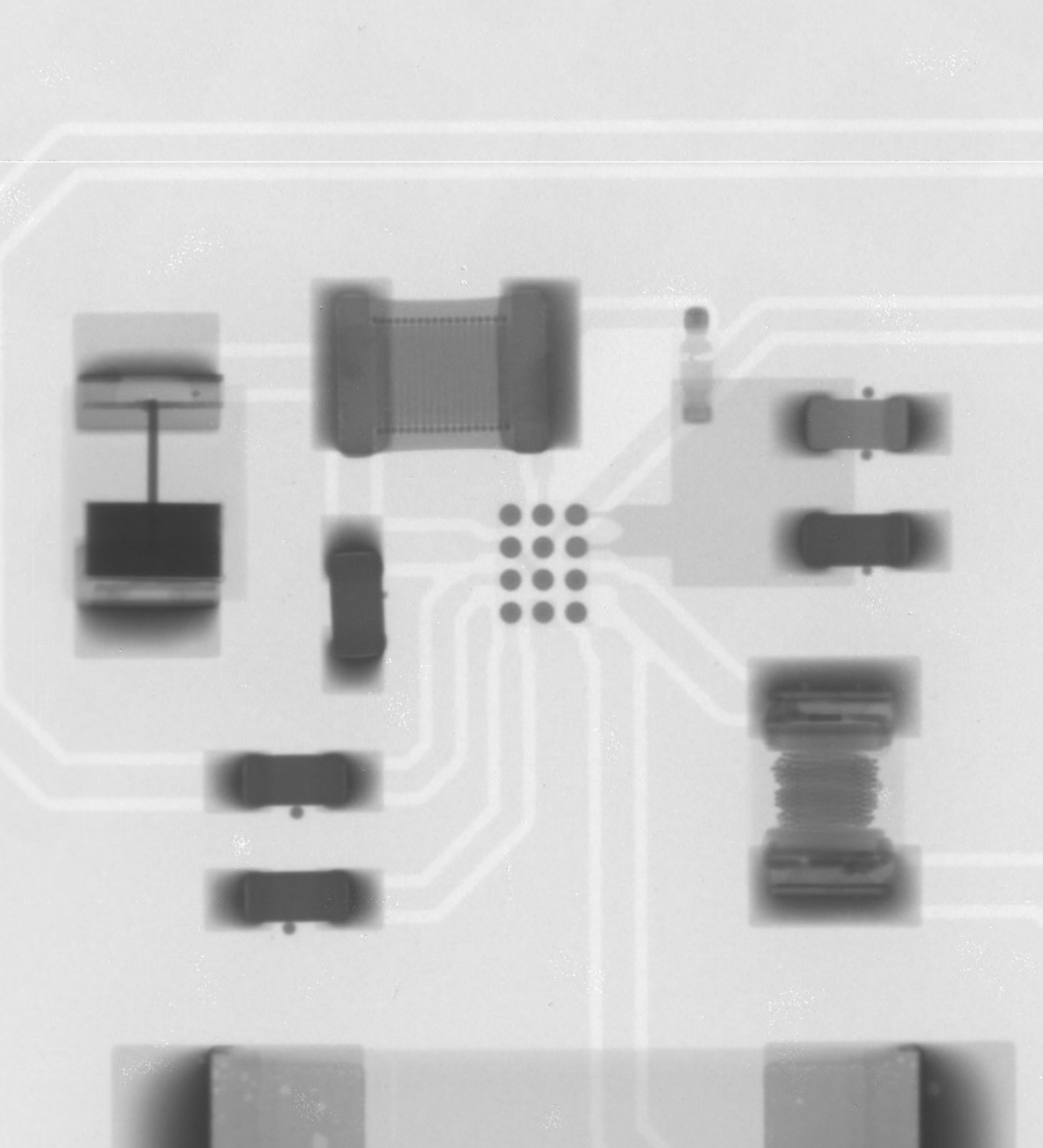
Passed

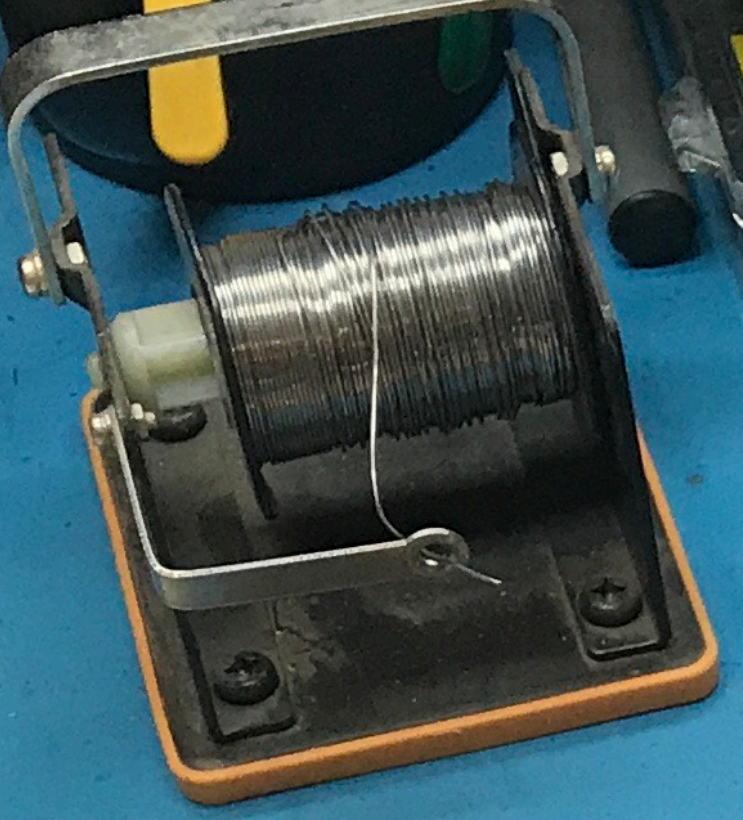
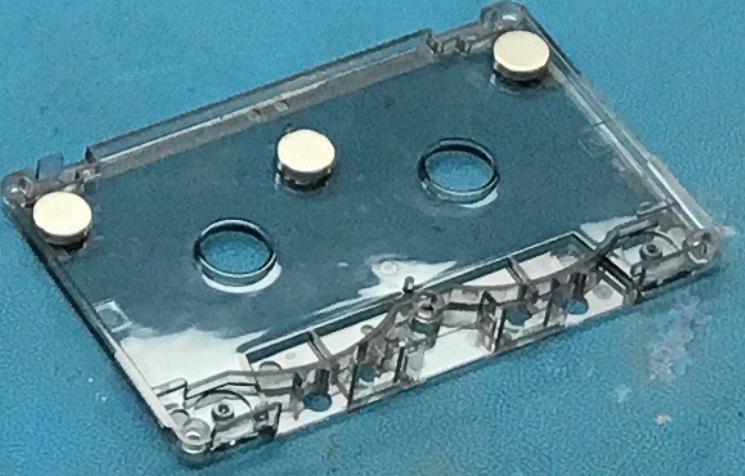
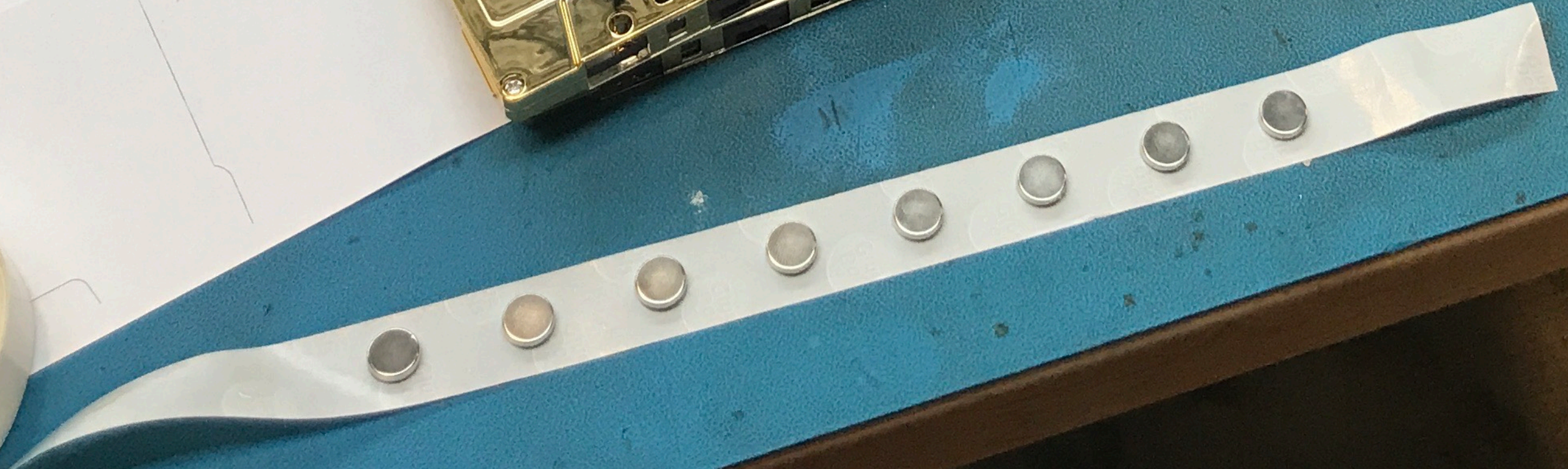
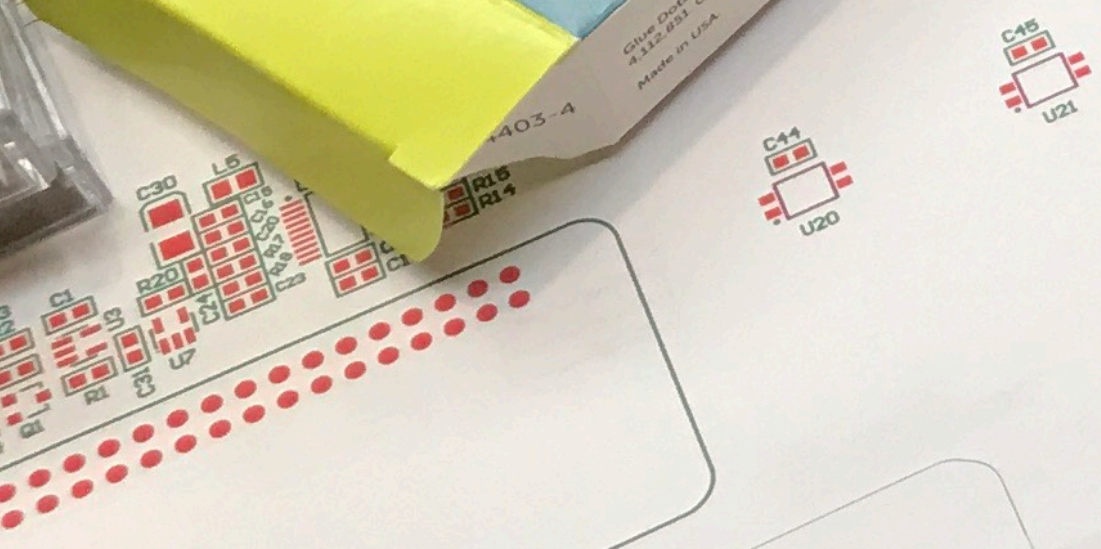


















DEMO TIME

RESPECT

- TDK
- MAR WILLIAMS
- MARK HUGHES
- NEW BIRTH CREW
- DUAL CORE
- SUMMIT INTERCONNECT
- MACDONALD ENTERTAINMENT PARTNERS

RESOURCES

- JOE'S YOUTUBE CHANNEL
- GRAND IDEA STUDIO
- PIMORONI
- MOPIDY
- WIKIBOOMBBOX
- THE BOOMBBOX PROJECT BY LYLE OWERKO

