化除食 保 保 具 背 背 背 有 新 新 帮 捐



Mearing aid could
have a soct
seoser implanted
use of micro-gestures
to change volume.

Use-case: limited arm
mobility, or perhaps
someone ulno hands

or arms, and some one else would need to alius 4 volume whout Violating personal space.



Miero "scrollwheel" gesture to chaog valune.

are this size ... but , this is alpha hardware and lage.

Ringuld the radar signals
interfere with 100%-011

Nick Arner

Ħ

opening / closing frank (classification) - raoge doppler -raoge profile - IR plot -caoye doppler doppler **Nick Arner**

Hards Over Stosov and spreading · Range profile · Id p 1.9

Horzootal.

Pb

gesture le ods her,

gesture Starts here (with holding ·Rage Popplex
· Forgy total
· Energy Moving
· Accelleration
· Velocity
· Velocity
· Velocity
· Velocity
· Velocity

Vertical Swipe

Mand Fioishes here

· Nange Doppler

Energy Moving

Velocity

· Energy Tota

· Kange

· Acceseration



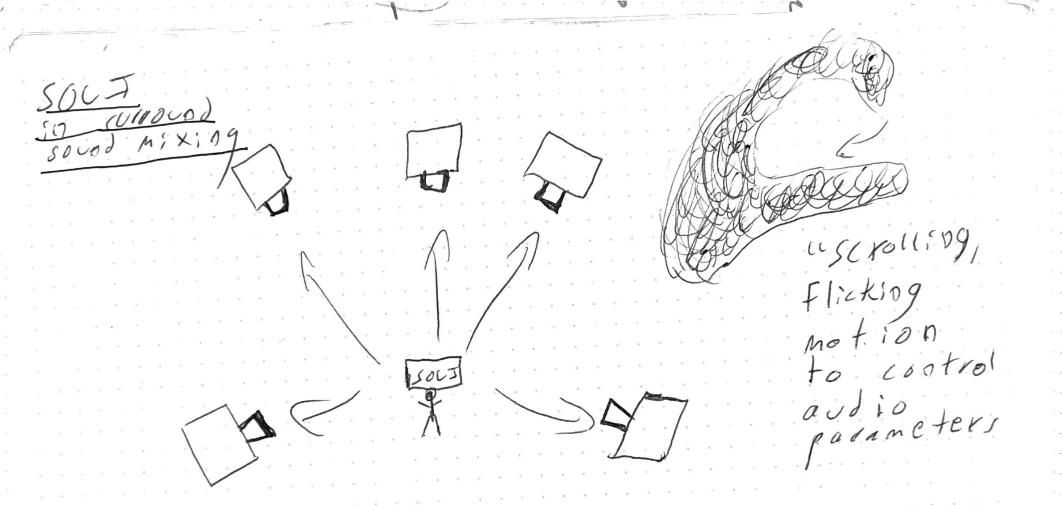
Nove Con Fature)

A "conductiog"

Haods start out on either sile of the seasor, and theo move up over top ot the seosor to meeq in contact.

· Vodo Jobbjes Micro Popler Nange Profile

Wekioator + SOLI Experiments Mand Posi 9100 - Classification (K-NN) · Reoge Profile · Reoge · Spatial Dispersion Project Name: Hand Height
forthoo (Classification)



Nick Arner

THE WA WA WA WA WA WE WILL WAS THE WE THE THE THE THE TAIL THE THE

SOLY + Cardboard gestures/ · VR / gestures · Vietbal tools · cool deno but top off · proch gestore -FRA SOLT SCUSSOF/to · had height -> vi /tual slider · peroll gestire 6: rtual - Not best Un platform for this both to type Knob commodication (OSC cootrollios library is in Development tools/Libraries) **Nick Arner**

happy the more glains - Closer hands are to each other the greater the grain deasity prech Cornollar synth)
yestives. - Kevery - Hot grains - grain density **Nick Arner**

Further sketches.

· flosh out sout / carbboard

· horizootal grabular syothin

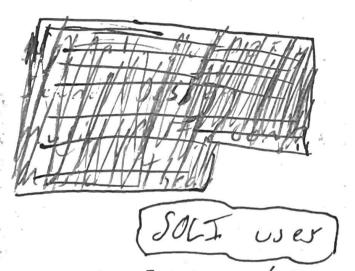
i.e. "scrolling through ano.

audio file, and then queaking

Who micro gestures

· spatial mixing (point at

speakers and adjust = 7)



· Music Performance/Conjesition

· Audio Editing (Sound Desigo

· Joquactive Visualization Soification · Digital Puppetry obsessative (Comp. Design

· Robotics D. godustrial Mfc.

Packinsios.
Therapy Nick Arner

· (cosumer & lectropic)

· Wearables · Music Therapy &

"Horizootal Grander Herizootal, siople novement acts as iscroller through the

FEEFFERE "Horizontal Granular

Janth" (2) OR Audio Bulling tool (2) Once a user Found a selection in the audio they wanted to crop, they could do so by soapping a Finger They could then start editions adjusting param values using digital-tool winters dial gestures. Audio is selected" **Nick Arner**

Mixing with sois

priot to speaker they wanted to tocus op. they would specify Which ibstrument group they wasted flick " gesture, They could then use a set of LS digiaal tools gestures to adjust volume

proving.

This would more béoeficial io a live sucoario, ruther than a recording studio ... the user could pote of ally use a wearable w/ solt installation where it would be iocooversent a mixios

Tap tempo / Aulio on 10ff with indigital buttoo gesture

Apropriotion the "virtual betto or gesture as

taster

the faster

are supersoned (=)

and closed (>)

Costuol revers annount · Treat reverb 65 1 Half Open something "escapiog"
the hab . wsaed io a sieve"

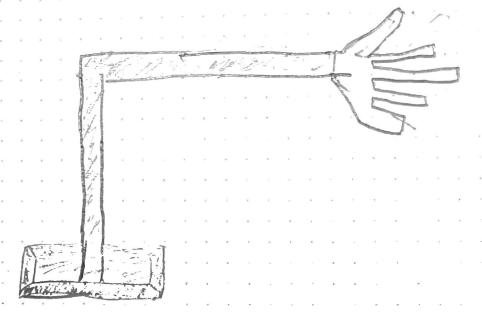
SOLI + Robotics

· (an we train a robot hand to perform

miero-gestures...

What are the manufacturing potentials of micro-gestures.

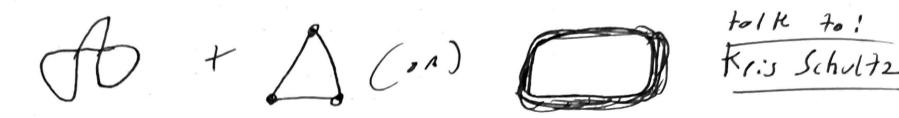
Any hazard Isafety benefits?



Mas a second of the second of

Playgourds for Soli lastyping · llaybook Speced Time Studiening Stiffing Naviable Delay · Modal Resonace Filter (squeezed huod= H2) figur lifts = · Phason Operation CFlogers Justing upward) 15 cub Costello Reverb · Band Paso Filter = mixio · Us strul slider Banduilth (enter

The ability to amplify small gesteres into Chad Vaura: actions has the 10900 UR ... napipulation Shall big results aka ruch Infinito Fitts Law more lexplore, s mall, purposefully MICTO actions gestures



Buttoo

Stiders.

Madd track soy +

Micro gestures

Gest for small movements

(i.e. 004 like a trood;

doesn't have occlusion

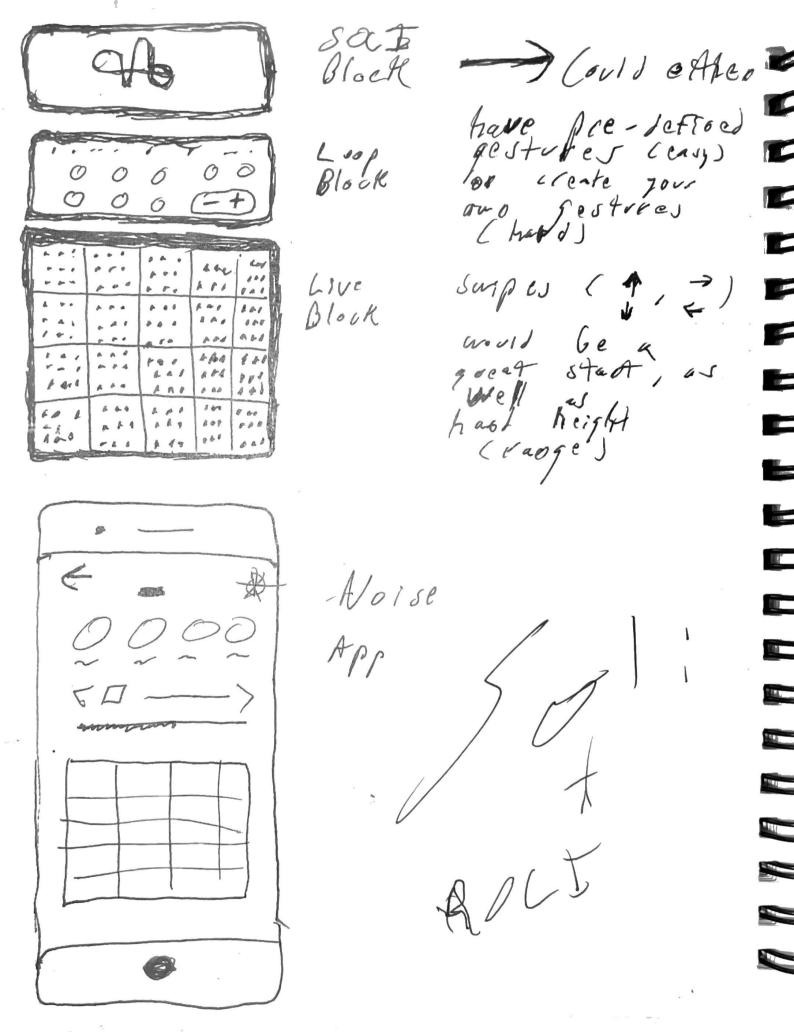
Problem)

Mill cone later... sie, Beta Kit (2017)

What would be good to demo using hands Ismall justures.

uses suipes yavigate. "come here" - fof the

CONFI OSCIOPUT Port WINDOW 292, 268.0.0 9000 DATA Address



Nick Arner

· Soli as meass to activate ao I.t interaction (make a gestore, & man chiup happeos, ad your phone gets some lata ghe jesture a passivois

Arduino



· Copy Nict 3 MV tutorial

· Ald in OSC message output

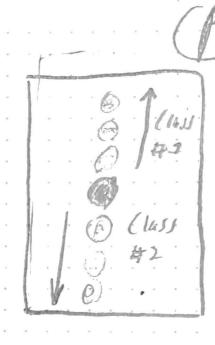
- classification output

- speed laccel eize ignot 2

· 6ct rebust P. V swipe

mill traine

· test osl output



Deloted ball is

Of Mison Ulicked,

De Larion Michely,

Besture cootrolled lamp · wheo the had is at the bottom, is if the brightest OLBO light

"ANDONIO BAP. + SOLT" Cootsolltrigger shoder a oimetions with social Circular - tube Floger (Swife)

(2) - siff. projet Cparticle systems) CFillered, Mood 9 1050 to cooteo(