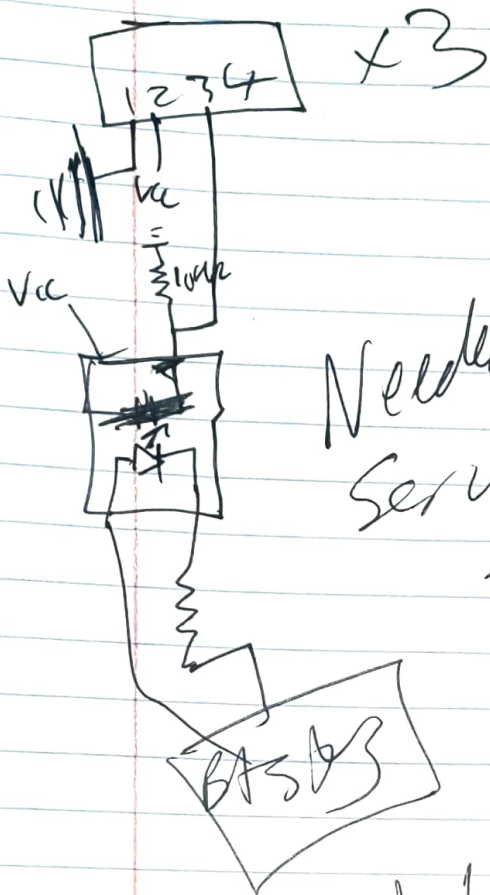


Marble Dispensing

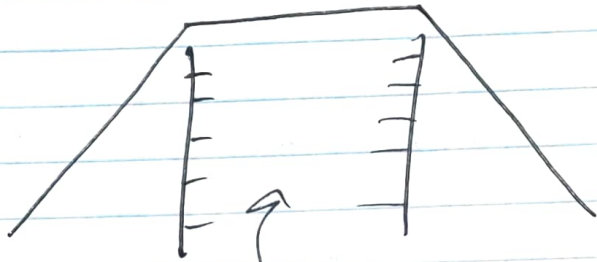


Needed to isolate
Servo voltage
from BT503
voltage

w/ 11 uF
back camera

4/2 PCBs ordered waiting to receive
- Printing components

- Tiered storage for H-Bridge &
PCBs designed

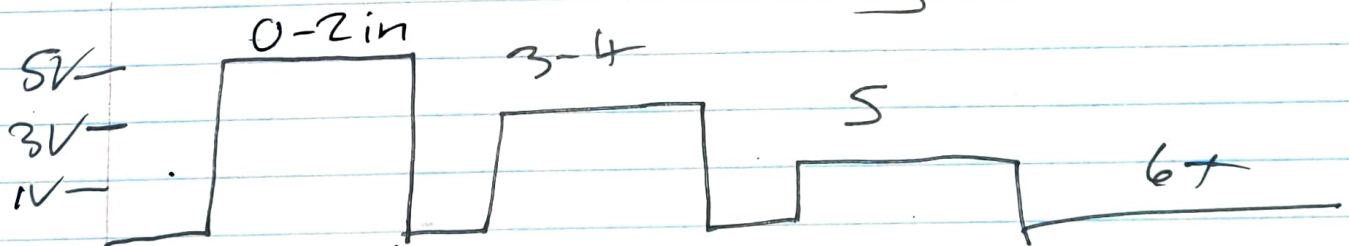


slotted in carrier plates w/
boards screwed in

IR Distance readings

Voltage across PS93 dewarser

further IR LEP & S



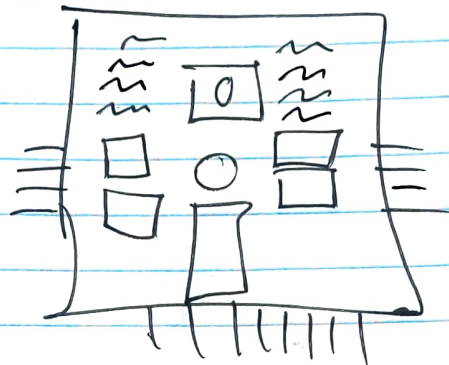
Shouldn't be a problem, as

tape is 3 in from trend, & PDU is 1 in closer

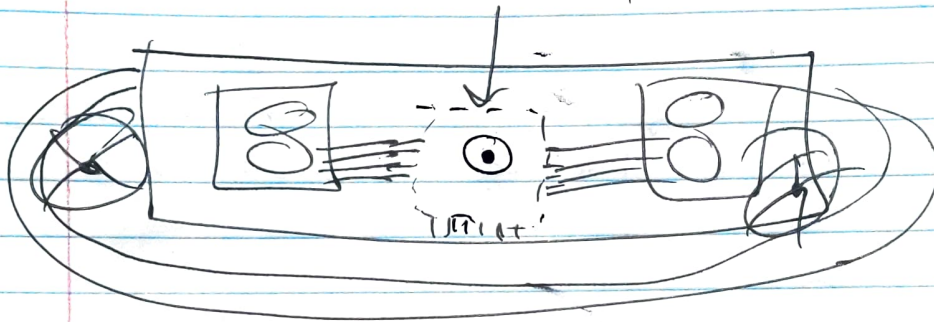
Add pull-up resistor to correct voltage
to Vcc for BASYS Input

Logan, Designed PCB (finally)

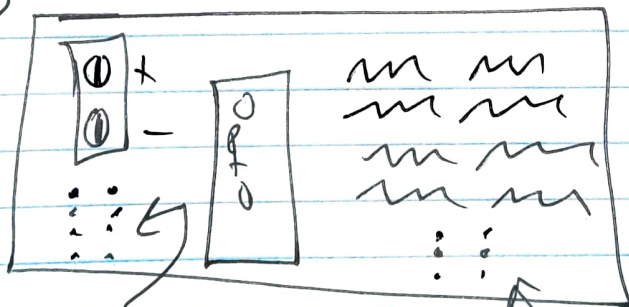
PDU



31 mil TH Vcc
21 " " "
15 mil clearance
50mm x 50mm



IPS



IPS
SUSK
PMS
(Input)

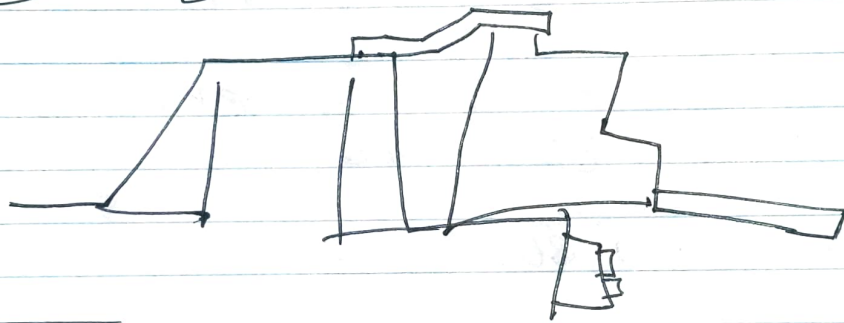
BASYS
Output

(for Server Backlog)
63mm x 35mm

31 mil TH Vcc
21 " " "
15 mil clearance

- Marble dispenser tested - FUNCTIONAL
- Logan probly gonna RP
- Morse TB Not working, need to check inputs & outputs

MD mounts next to tiered storage



IPS TrackNav works, adding Buck converters for variable power (GVIR)

Lo GAN will solder Power Breakout Board

Need to ADD FUSE Holders &

Display Morse decoding on BASYS 7-Seg

- 4/9 - Morse TB Fixed, Forgot to send output from Receiver to decoder
- Will wait for 3 perfect signals w/ dot & dash matched perfectly
 - PCBs received, IPS actually works, needs it
 - PDU Does not Work (IR)
 - Begin designs for LED's
 - Spiral for front strand
 - NAUTILUS LEDs on mirror PDU
 - Use Arduino to Light up Spiral sequentially 15 LED's max
 - ordered 100 Blue LEDs for mirror PDU
 - Logan Redesigned AD to glock mag
 - looking construct, doubt it will work
 - way too complicated (springs)
 - Logan finished PDB w/ 3 Buck converters
 - PDU Pins are mirrored (labels on y)
 - Battery level can now be monitored w/ BASYS LEDs

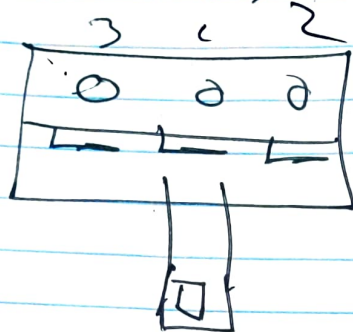
- Switched US code to detect bin for longer before Δ state to reduce harmful noise issues
- Mark made a wiring diagram, good for him
- I followed it to plug in wires, but I'm color blind (r/g) and shorted out some H-bridge pins
- Shroud still not done
 - MPDU "
 - V2 IPS Rig "
 - tails "
- LEDs take .72A @ 5.1V, may run @ 3.3V to reduce I load

- 4/16 - I have crimped so many wires that I have a crimp walk
- Mark wants orange only wires for Rover
 - So I deliver
 - Coded Arduino for LED's turn on sequence
 - Soldered 40 LEDs for NAUTILUS side logo
 - First try mirrored, w/ 1 LED flipped
 - 2nd try perfect
 - Tested 2 CPS43A in 11 to increase IR detection range (worked, may have interference w/ multiple transistors reading same signal IDK)

- Logan redesigned MD Again

- No more messy

- 3 Servos, Condensed VI basically



$\frac{1}{2}$ size of OG

- much lighter junc like everyone else's

- ~~4~~ mounting brackets

- Did Rover Demo for Evelyn new Lab opening

- Added Pullup resistor to IR circuit

V of 200mV now 3.3V w/ PR

- Reassembled rover & flipped F & B US

- Mark is springing an extra display on us using I2C. Not my fucking problem

- Fan added to back, as removing heat sink from H-bridge for clearance necessitated extra cooling

- Made V battery storage for double capacity

4/24 - Demo day Prep

- Rover dispenses & detects inconsistently
- I crimped many more wires
- Got LEDs powered & glued in place to shroud
- After reassembly track nav is fucked
- Fixed a bad crimp & swapped out H-Bridges
- Logans EN4 worked
- Overcurrent (Software) not connected yet
- Fuse holders added by motor (pres for Clark)
- Cleaned Marks garage for party
- Soldered connectors for IRC ESP
- More crimping
- Mark coded new alterations
 - Morse now actively counts each morse char ^(used to wait for 1)
 - ~~now~~ once 3 in a row same it dispenses
 - turn speed slowed down for better wheel to tread traction (slips bad on long turns)
- Logan - adding sandpaper between wheel & tread to increase friction & prevent stard spin state
 - Clark's track will probably be easier than test track
- Texted Clark about lack of Kelly's Morse Bins in lab & time of practice track completion
- Chatted w/ lab 2 groups about their projects
- Begun compiling for Final Report
- Upstairs track sucks (218 ECE)
- Plan on helping Clark w/ new track
- Got HANV signatures
- Waited for RFL for 3 hours
- Mark still has IRC communication issues