

Stories and Stuff...
w/ Joe Grand





Age 10
(Circa 1985)

K9 K-9

For Jordan

From Joey

(Autoboot)

Written By: Joey Grand

Datasoft Inc
COMPUTER

"Software for people who aren't easy to please"
19519 Business Center Drive, San Diego, CA 92128

Electric Dog Atari 400 1983

```
READY  
LIST
```

```
10 GRAPHICS 1  
20 POSITION 4,5  
21 SETCOLOR 4,5,6  
22 FOR I=1 TO 10:NEXT I  
23 SETCOLOR 4,1,8  
24 COLOR 2  
30 ? #6;"electric dog"  
40 ? #6:? #6:? #6;" by":? #6:?  
   #6;" joey grand"  
50 SETCOLOR 2,76,9  
51 POKE 752,1  
55 ?  
60 ? " *** PLEASE WAIT ***"  
80 RUN "D:K9"
```

```
READY  
■
```

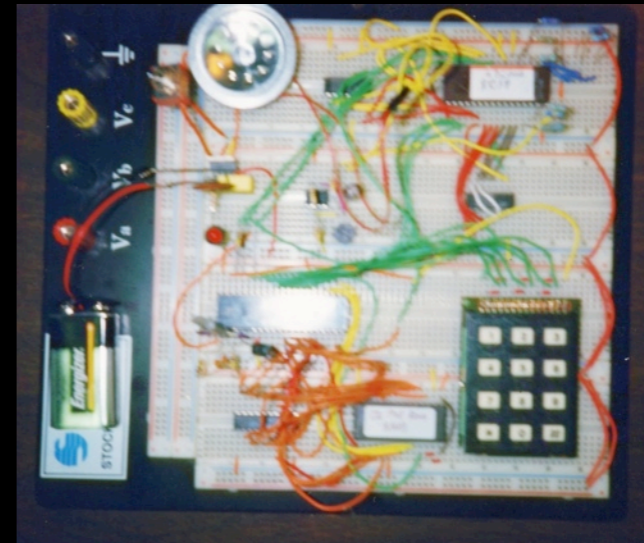
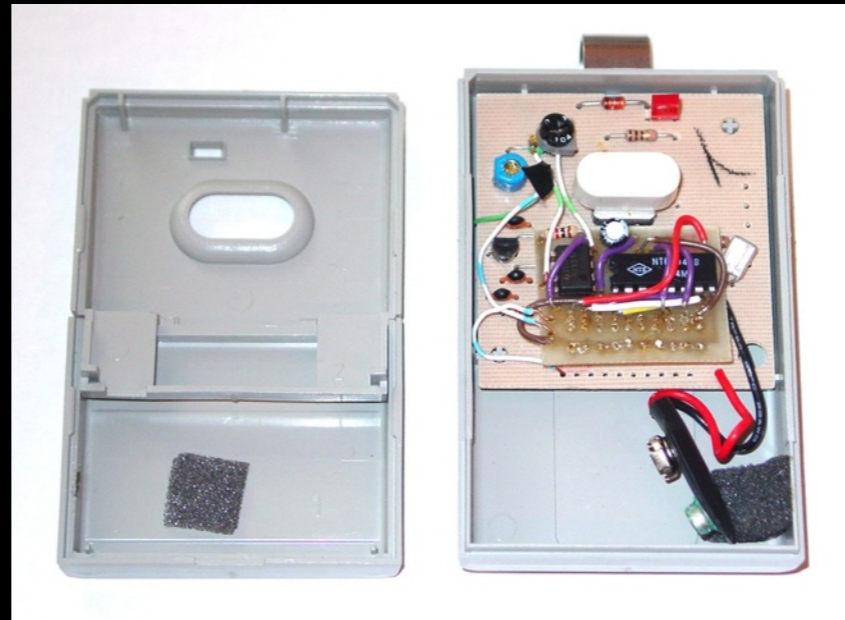
ELECTRIC DOG

BY

JOEY GRAND

*** PLEASE WAIT ***

Early Projects... 1988-1995



Renegade Legion
Technical Reports

**
* R *
*

**
* L *
*

Eastern

Western

Brian Oblivion
 Count Zero
 Net Runner
 The Knight
 White Knight
 Kingpin
 Highlander
 Nemesis
 Snuggle
 Zardoz
 Iceberg

 ...

Overdose
 Sirius
 Meat

```

=====
==          ==          ==          ==
==          ==          ==          ==
==          ==          ==          ==
==          ==          ==          ==
==          ==          ==          ==
==          ==          ==          ==
=====
    
```

<== Legion of Schram Today ==>

Newsletter #1

June 1991

* Renegade Legion *

.....
 SAMPLE CBI REPORT
 Information in this report is fictional, including the ACCOUNT
 NOs and the BUS/ID CODEs.

Carding in the '90s

by

The Knight

FN-700

SINCE 04/00/75 FAD 10/21/89
 , YUTZVILLE, NY, 10011, TAPE RPTD 10/89
 NOWHERE, IA, 50055
 1, DEPS- 2, AGE-38, SSS-012-34-5678
 01 ES-... ART CORP
 02 EF-MCDONALDS RESTAURANTS
 *SUM-01/85-01/91, PR/OI-NO, FB-NO, ACCTS:11, HC\$6-1600, 3-ONES.
 *INQS-450DC81 02/24/89, 178BB20089 02/06/89.

* BUS/ID CODE RPTD OPND H/C TRMS BAL P/D RT 30/60/90+MR DLA/ACCOUNT NO
 03 S*178BB34860 11/90 05/85 500 171 521 139 R5 01 01 01 66 1234567890123456
 PREV HI RATES: R4 10/90, R3 09/90, R2 08/90
 CLOSED ACCOUNT
 AMOUNT IN H/C COLUMN IS CREDIT LIMIT
 04 I*178CD8712 10/90 03/89 123 123 123 01
 05 I*342IH34 10/90 12/85 1600 500 1600 R9 00 00 03 003/88 048286423
 462642892

LoST is:

- The Exploding Boy (Christian Death)
- Malcontent
- Third Party Bill
- Skateboard Joe
- Gordon Tesh
- The Enemy of the People
- The /<rad /<odez /<id
- and the rest of the anonymous bunch...

<*- L. O. S. T -*>

Legion of S.C.H.R.A.M. Today



The L0pht gave me an outlet
to use my skills for good.



The Lopht
BOSTON

Unauthorized Access by Annaliza Savage, 1994

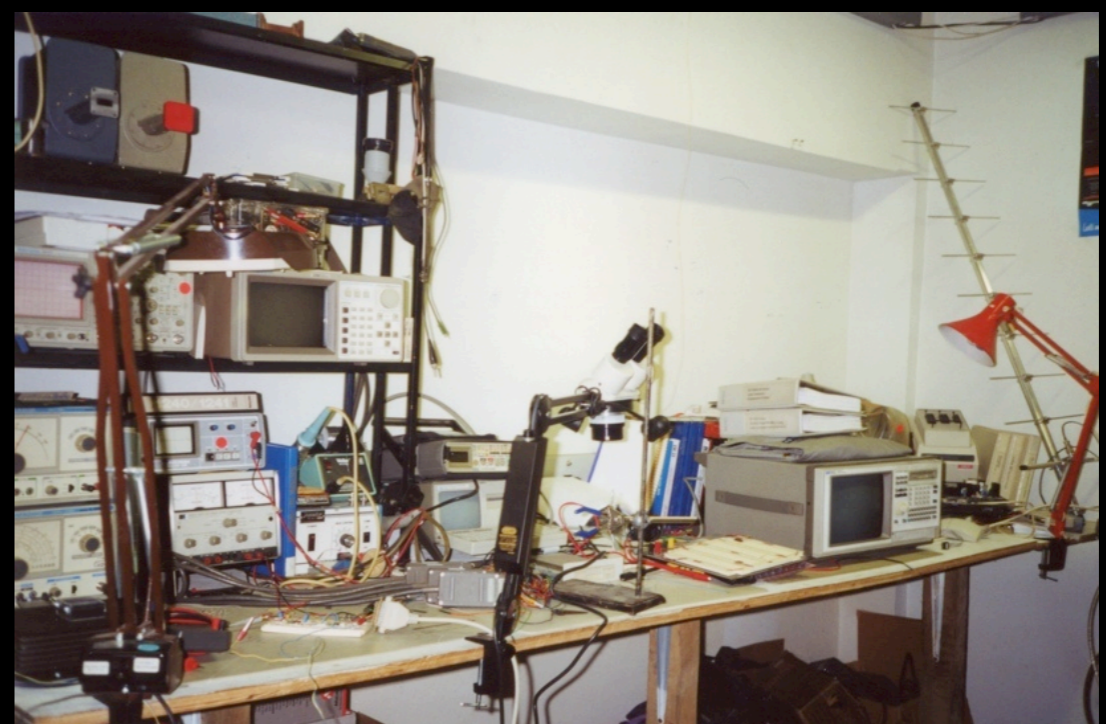
L0PHT HEAVY INDUSTRIES

The L0pht

What do a group of hackers do when the equipment they've accumulated over years of dumpster diving no longer fits in their apartments? They get a l0pht. Since 1993, a core group of seven Boston-based hackers have rented a loft space for hacking, trading information about cellular phone security, and building things like a wireless Internet service using discarded microwave equipment. All strictly for educational purposes, of course.

"It's a sort of hacker think tank" says Mudge (front), l0pht member and a familiar name to Apple II software crackers. Today, l0pht is stuffed with old PDPs, Sun Workstations, and even a small supercomputer.

Now that all of them have day jobs in the industry, why do they keep at it? "For the girls and the text files, of course," says Mudge. — Steve G. Steinberg



Circa 1996

The l0pht is happy to announce the availability of the **Black Crawling Systems Archives CD** for \$25 + S&H.

This CD contains hard to find technical files and programs concerning subjects such as:

- cellular telephones, digital radio
- telephone systems, phreaking
- electronics projects/tools
- hacking, vulnerabilities, tools
- survival, patriot archives
- computer underground images and text files



The **L0pht Archives** offer hard to find files from the computer underground and beyond.



Projects are always underway in our well equipped laboratories.



Stuff from the l0pht that you can get your hands around.



Our security **advisories** are designed to inform you of current vulnerabilities.
Home of L0phtCrack Updated 08.29.97



Internet **services** are available to enhance your privacy and information access.



Relax and hang with the hackers.



Cons are as important as they are a good time.



Mine our site for the nuggets you desire.



Battlezone Repair Project Arcade restoration is not as easy as it looks.



Red Box Detection Circuit As seen in 2600 Magazine...



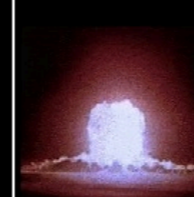
SOLD OUT! POCSAG Pager Decoder Decode pager transmissions easily with this hardware, a scanner radio, and a PC.



Jolly Box is a multi-frequency, programmable tone generator/signalling device similar to the Hacktic Demon-Dialer released a few years back in Amsterdam. The unit was planned to be released in kit-form, but redesign of the project has been put on hold. The link explains more.



Cell-64 This unusual hardware is used with a Commodore 64 and a cellular phone. It is used for the testing of cellular phones. I was searching for information on this for quite a while, and finally picked up a complete system at a flea market!



kingpin@l0pht.com

Last update occurred on 2/12/98 at 7:37pm



05/06/98 WED 15:00 FAX

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United States Senate

COMMITTEE ON
GOVERNMENTAL AFFAIRS
WASHINGTON, DC 20510-6250

May 5, 1998

L0pht Heavy Industries Technologies, Inc.
P.O. Box 990857
Boston, MA 02199-0857

Dear L0pht:

On Tuesday, May 19, the Senate Committee on Governmental Affairs will hold a hearing to assess the information and computer security vulnerabilities in the Federal government.

Seven members of your organization are invited to appear before the Committee to present:

- Information on computer and communication system hacking;
- Specific security weaknesses in computer and communication systems which enable hackers to exploit information on these systems;
- Recommendations for improving system security in terms of software, hardware, and physical devices.



Late Night w/ Conan O'Brien, May 20, 1998



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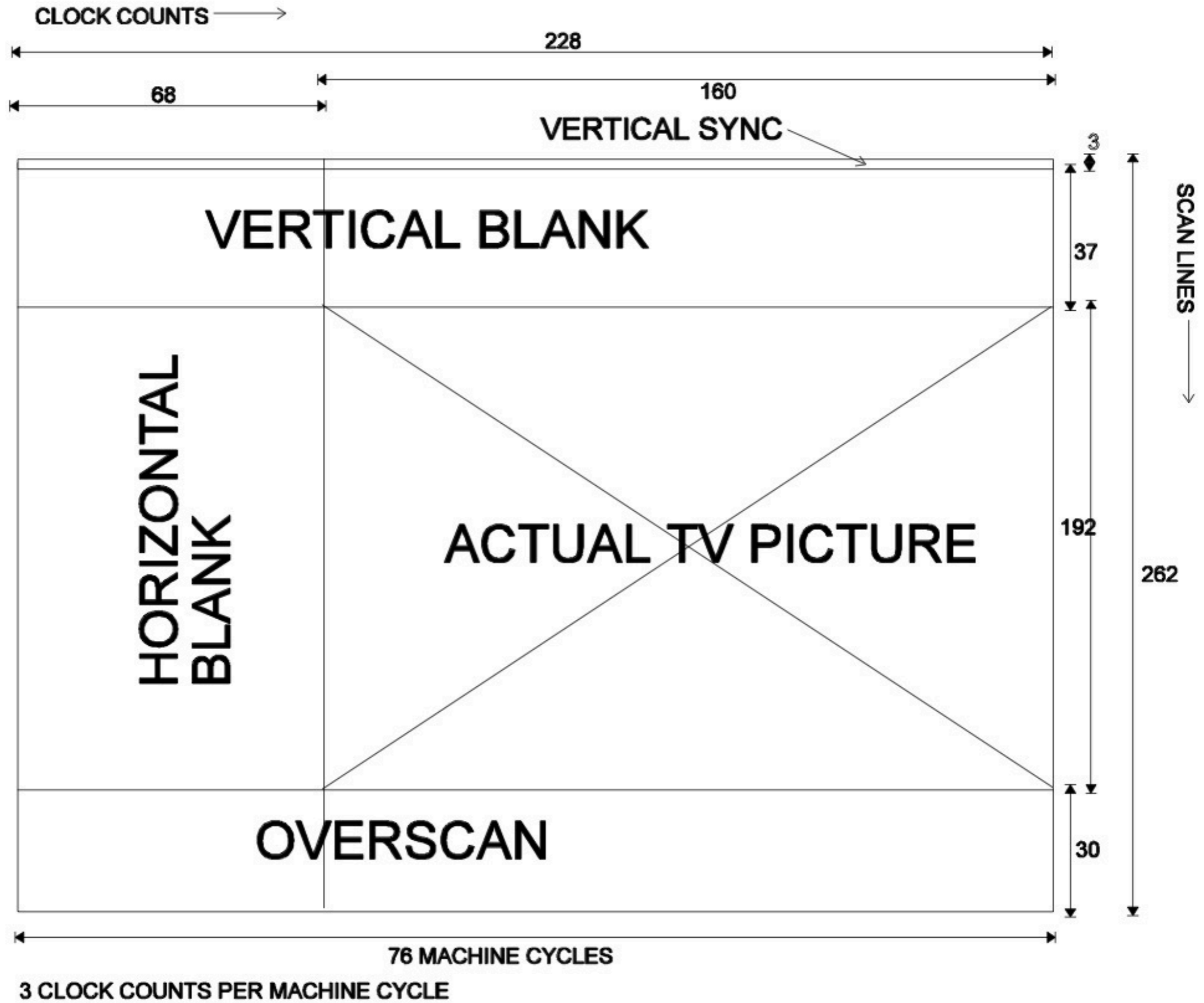






ATARI 2600 YCS OMG LOL WUT?!

- Released October 1977
- 6507 (cost-reduced 6502 w/o external interrupt, etc.)
- 1.2MHz
- 128 bytes of RAM
- 4KB of ROM (cartridge)
- Limited graphics: 40-pixel playfield, 2x 8-pixel players, 2x 1-pixel missile, 1x 1-pixel ball
- No frame buffer
- Extremely difficult to program
- Passionate homebrew community





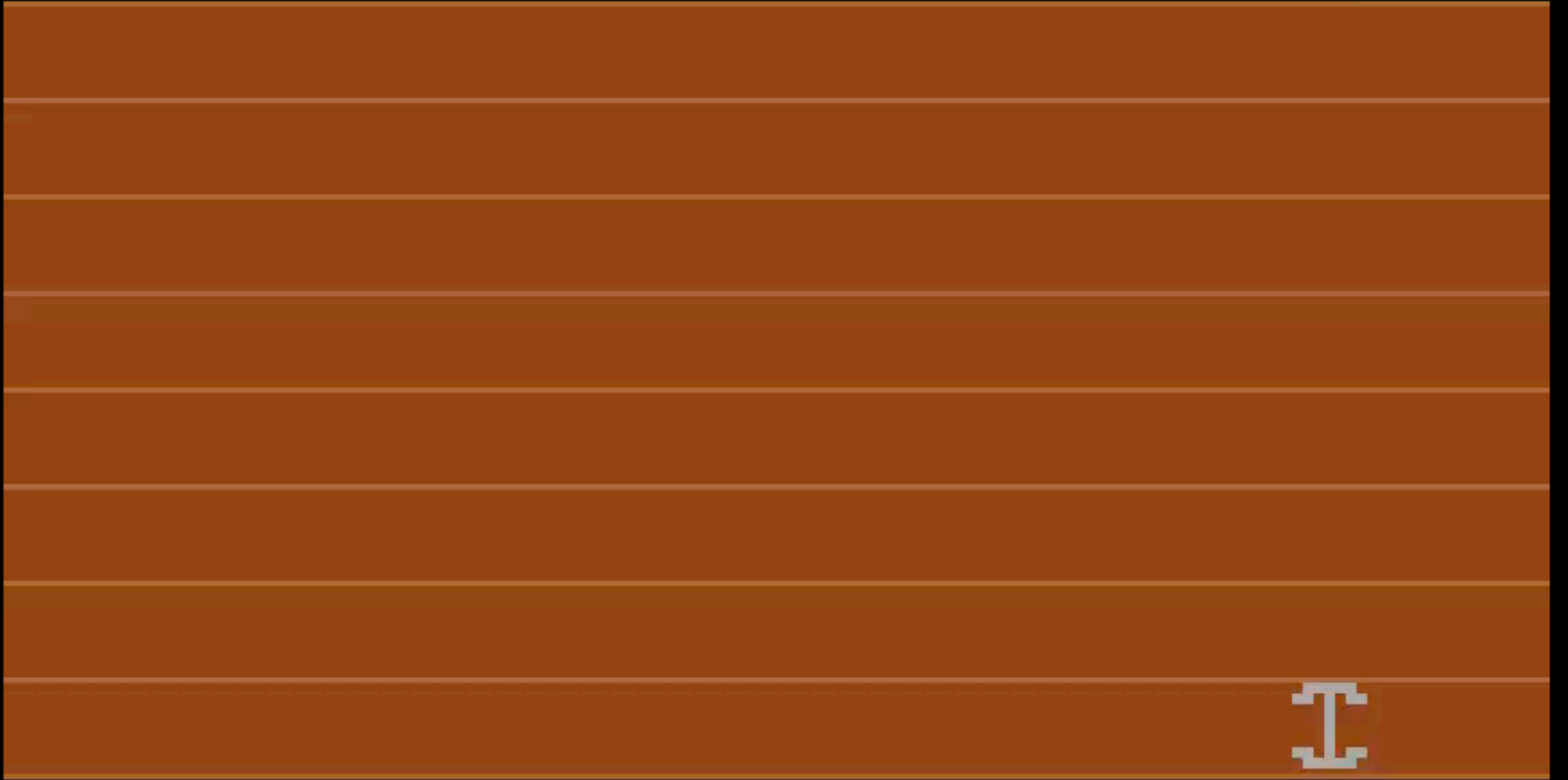
SCSIcide / Ultra SCSIcide
Atari 2600
2001 / 2005



SCIENCE FICTION

J. Grand





DEVELOPMENT ENVIRONMENT

- Pentium II 233MHz, Atari 2600 Jr., Starpath Supercharger, 13" color TV
- TextPad + DASM 2.0 (cross assembler) + z26 (emulator) + WPlayBin
- 2100 lines of assembly, 2557 bytes of ROM, 115 bytes of RAM



DIY CARTRIDGE MANUFACTURING



DIY CARTRIDGE MANUFACTURING





The Discovery Channel logo, featuring a small globe icon to the left of the word "Discovery" in a large, white, sans-serif font. Below "Discovery" is the word "CHANNEL" in a smaller, white, spaced-out, sans-serif font.



The "Talent"



joe
grand



zoz
brooks



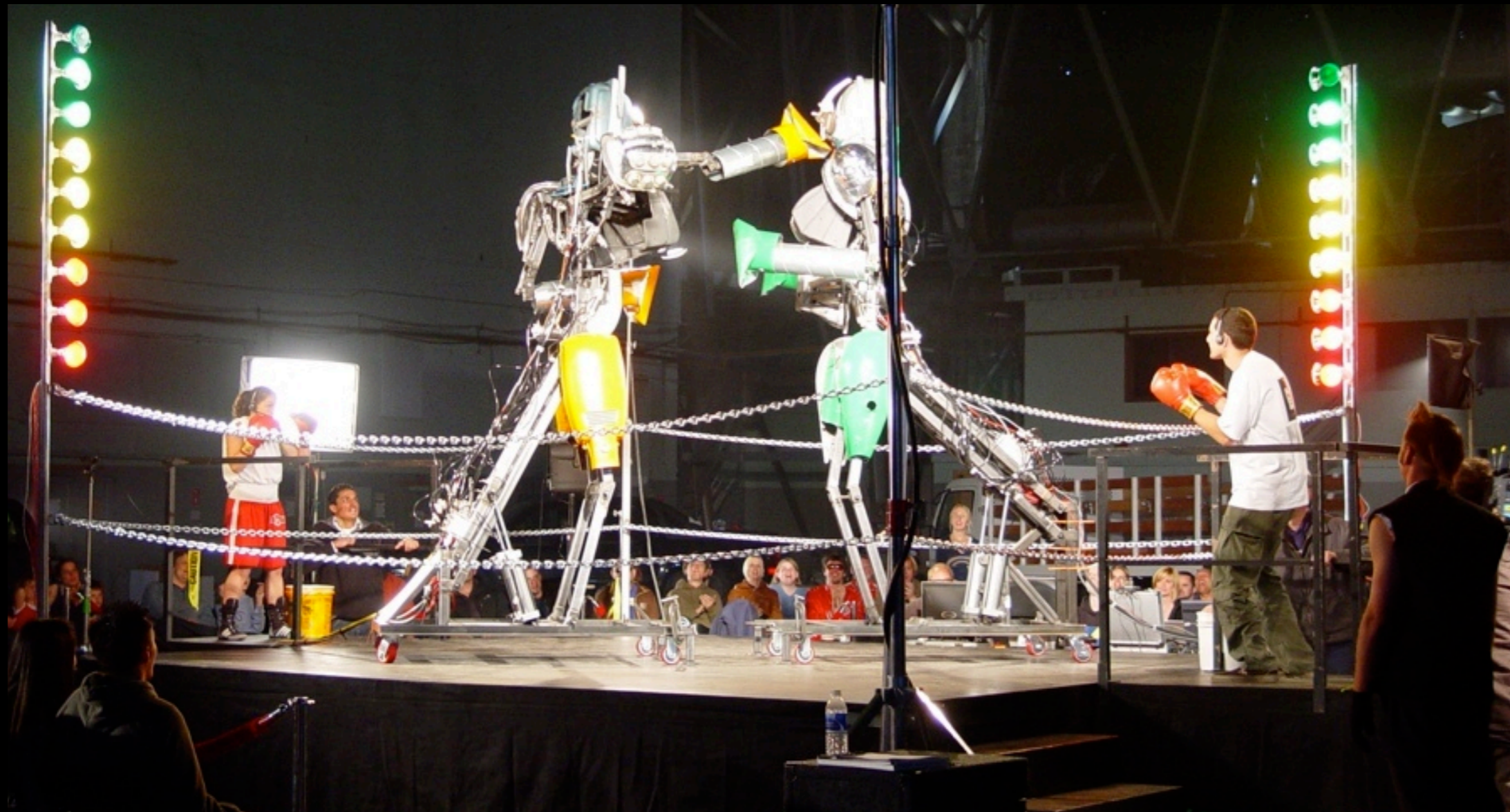
mike
north



terry
sandin



Boxing Robots



- 1st official build
- April 2007
- ~2 weeks
- Controlled by players outside the ring
- No \$\$\$ for real mocap solution
- Camera/AR + accelerometers



Boxing Robots



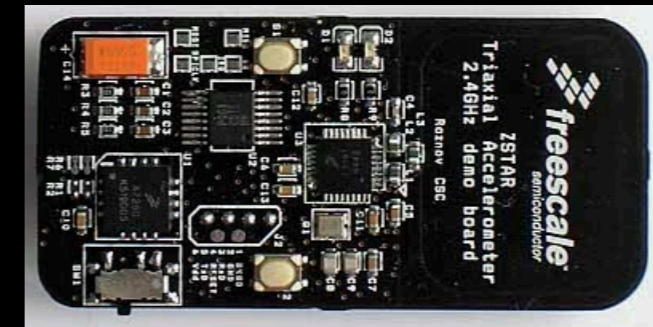
VS.



- Built out of custom articulated steel skeleton
- Covered in body made of recycled/surplus materials
 - Visual design by Nemo Gould (nemomatic)
- Pneumatics controlled via PC w/ ProXR RS-232 Relay Controller



Boxing Robots



- Freescale ZSTAR Wireless 3-Axis Reference Design (MMA7260QT + MCI3191 2.4GHz transceiver) on gloves
- Highest sensitivity setting (6 Gs max)



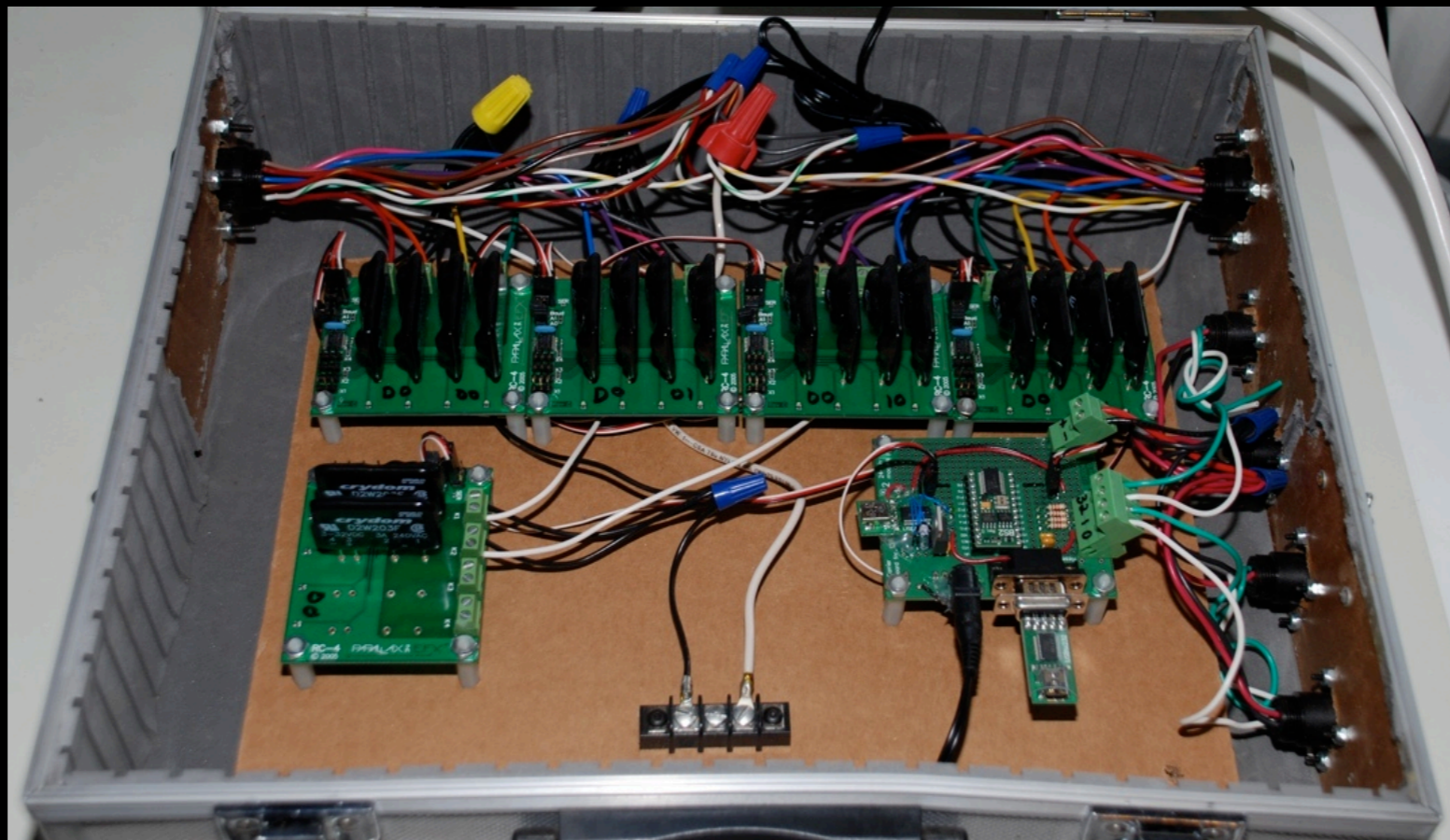
Boxing Robots



- IDS μ Eye LE compact CMOS industrial cameras
- Shape filter for punch detection & classification
- ARToolkit tracking for body orientation
- Motion queue sent via UDP to pneumatics control PC



Boxing Robots

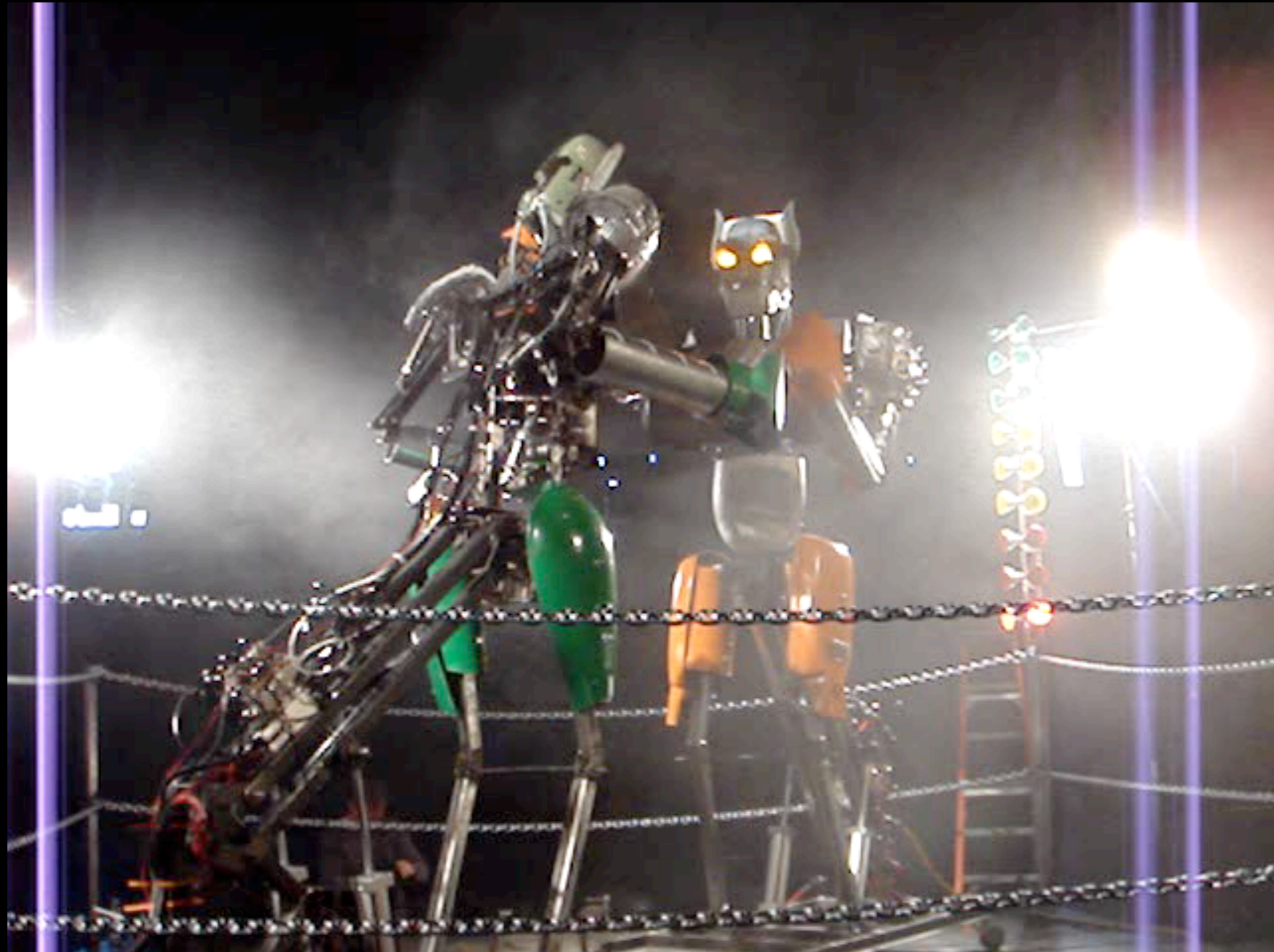


- Health-o-Meter/Scoring System
- BASIC Stamp 2
- EFX-TEK RC-4 + Crydom D2W203F SSRs
- Magnet + hall effect sensor in neck to determine a "hit"
- Serial port I/F to communicate w/ Zoz's control S/W





Boxing Robots





Remote Controlled Car





Omni-Directional Couch





Autonomous Pizza Delivery





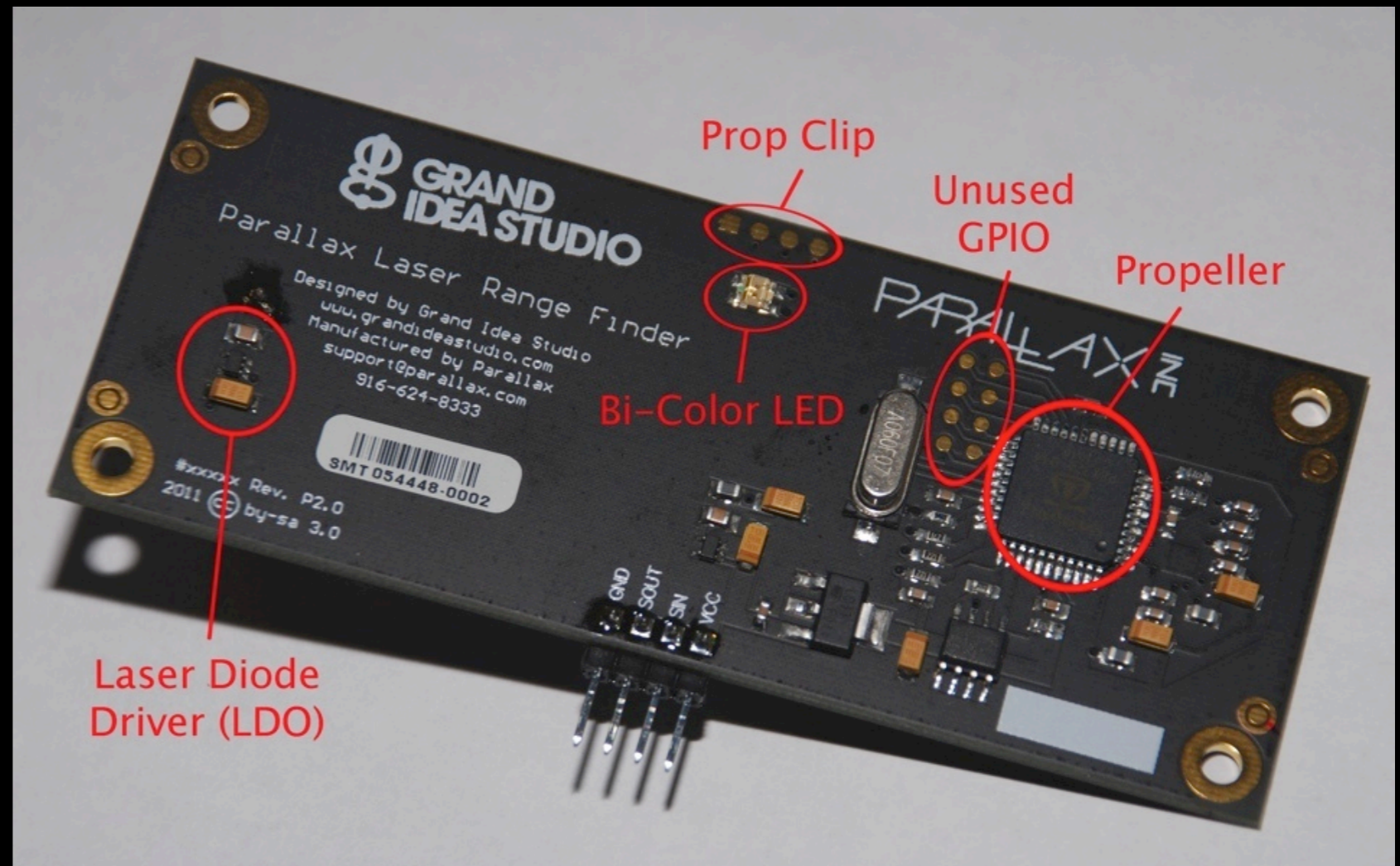
Waterslide Simulator

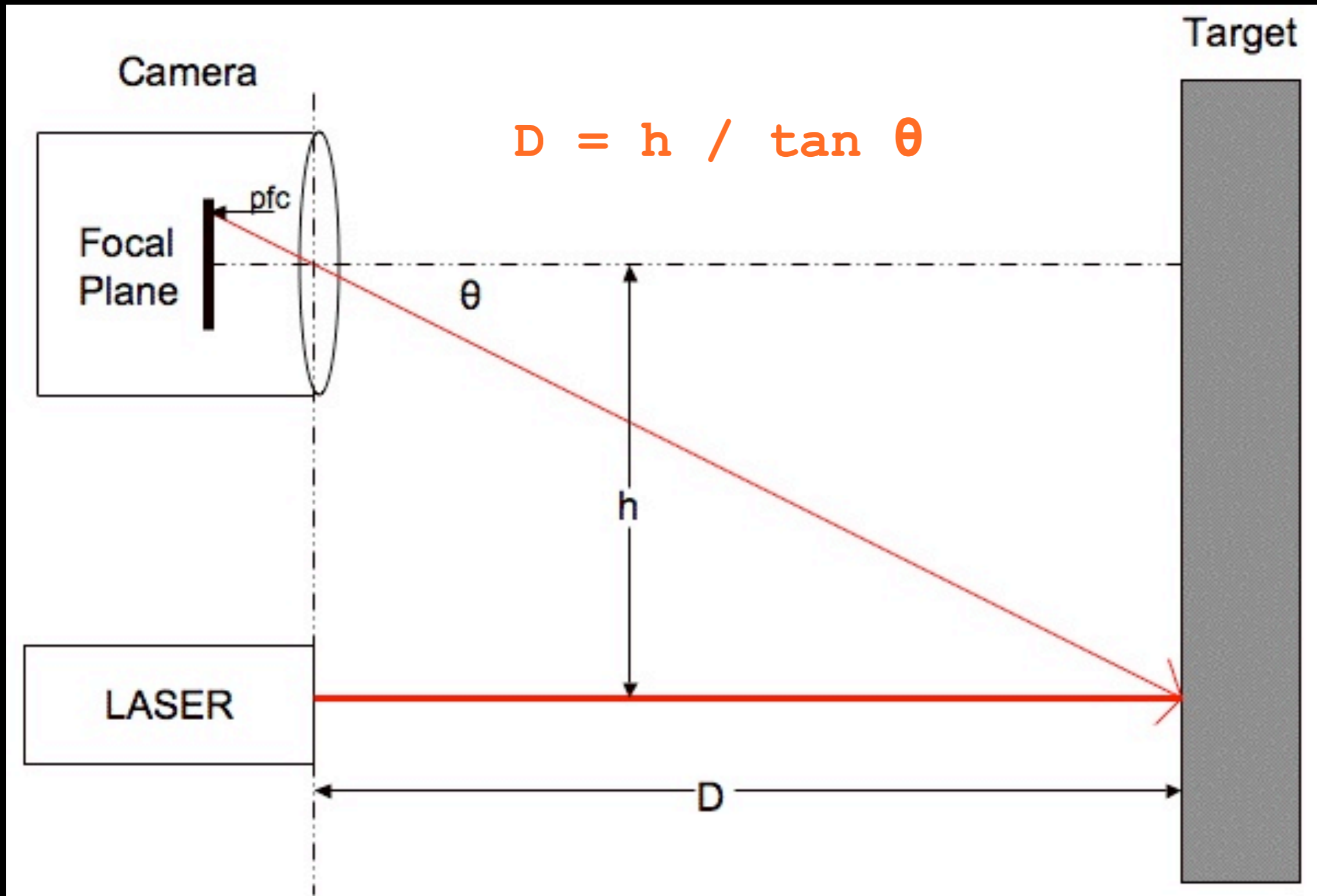






**Parallax
LRF Module
#28044**





http://sites.google.com/site/todddanko/home/webcam_laser_ranger/laser_ranger_drawing.gif

LRF-to-GBP: Details

- LRF: 160 x 128 greyscale image @ 8bpp
- GBP: 160 x ∞ @ 2bpp
- Modified version of original LRF firmware
 - Only need camera interface, frame grabber, and serial communication functionality
 - LRF grabs single frame when button pressed
 - Frame processed and sent to GBP via SPI

LRF-to-GBP: Image Processing

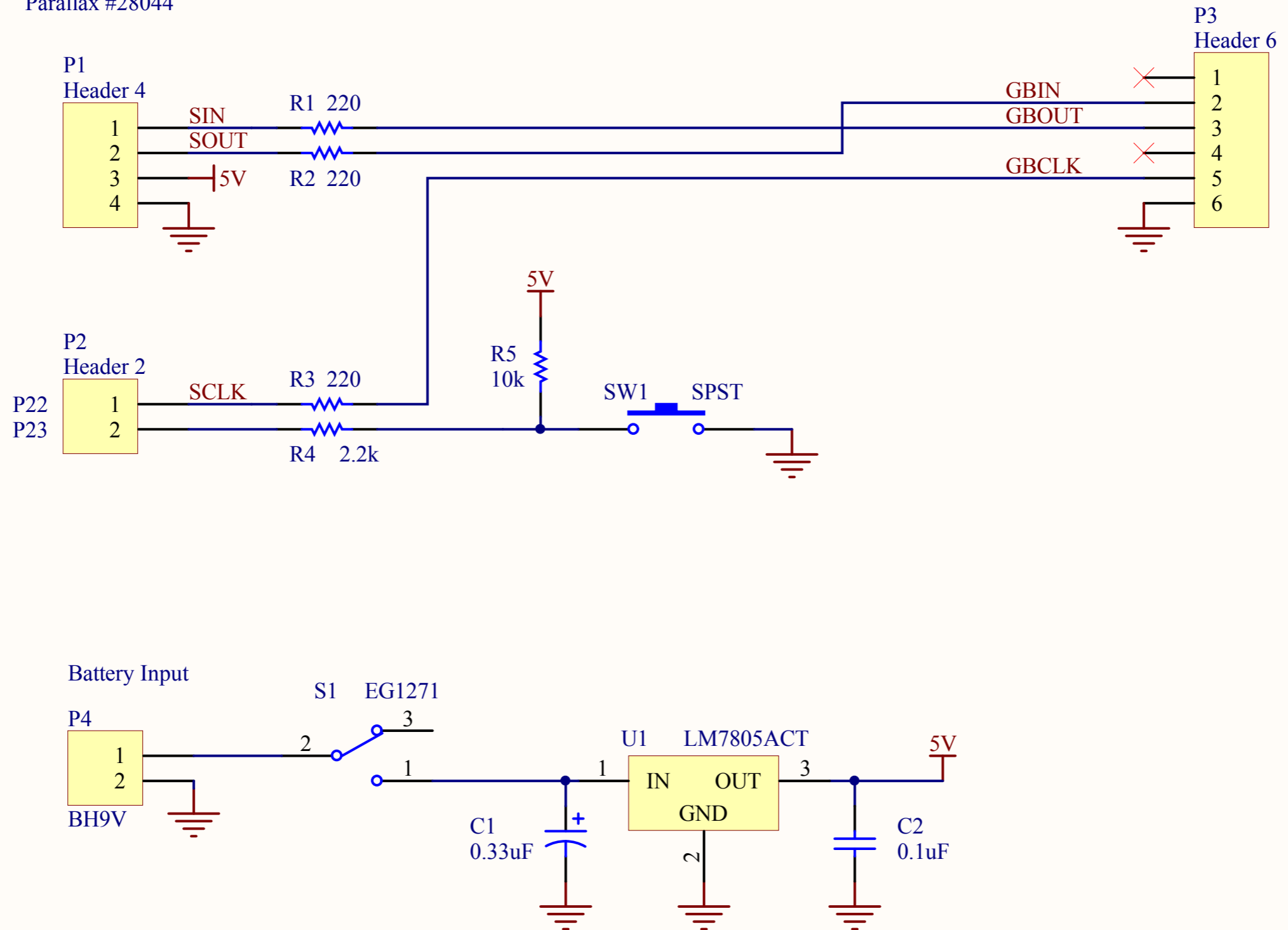
- Need to rearrange all the pixels and downsample
 - LRF frame stored in a linear format
 - GBP expects image data in a series of tiles (blocks)
- Each tile = 8 pixels * 8 pixels
- 20 tiles horizontal per band
- 2 bands per buffer
- 640 bytes per transaction



LRF-to-GBP: Schematic

Laser Range Finder Module
Parallax #28044

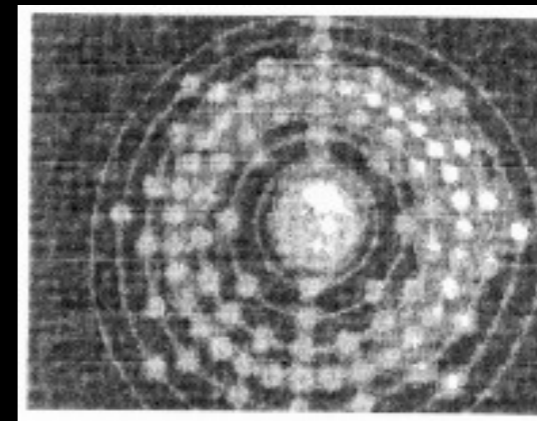
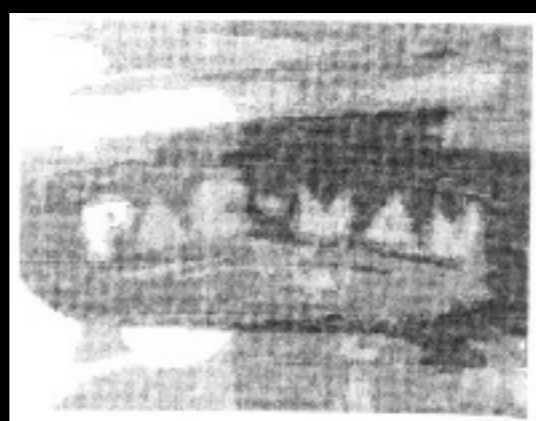
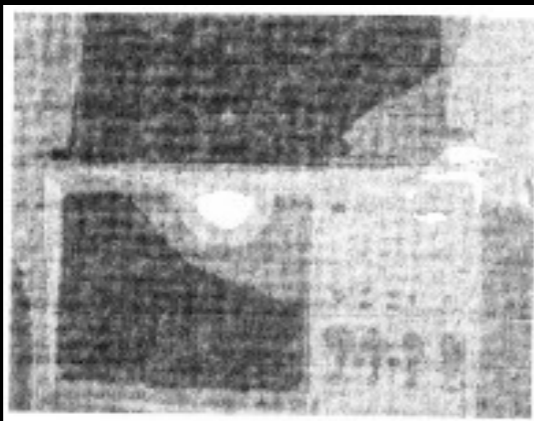
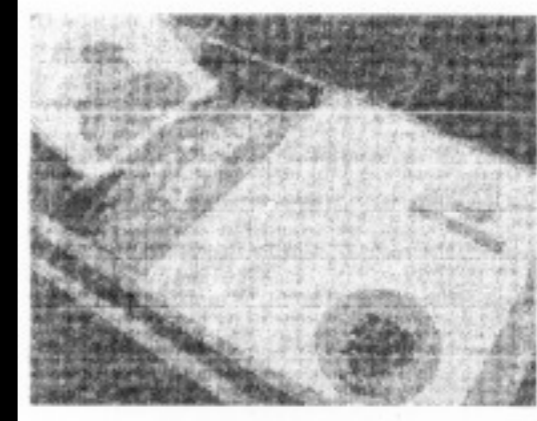
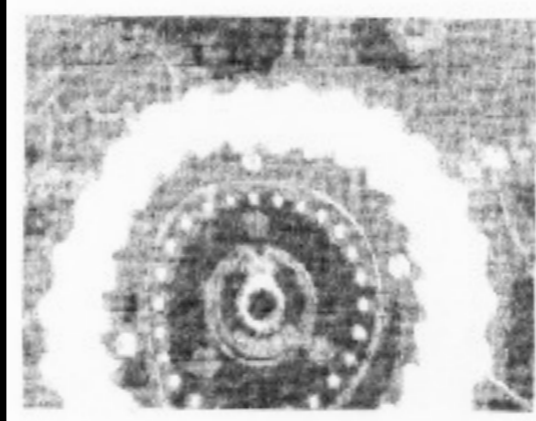
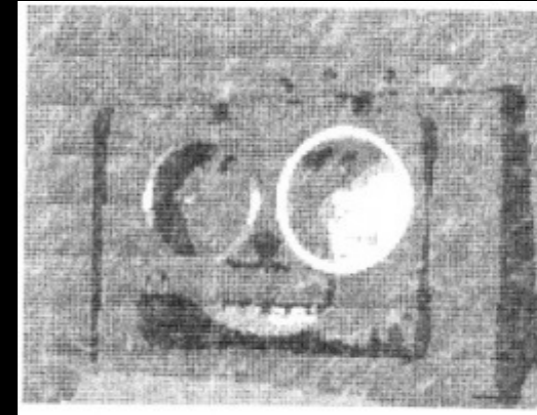
Gameboy Link Connector



LRF-to-GBP: Action Shot!



LRF-to-GBP: Output



*“To give anything less than your best
is to sacrifice the gift.”*

Steve Prefontaine



January 25, 1951 - May 30, 1975

THANK - U + GOODNITE
FROM PACSAT : KU - 1



MENU

MUTE
EXIT

VOLUME

CHANNEL

INPUT