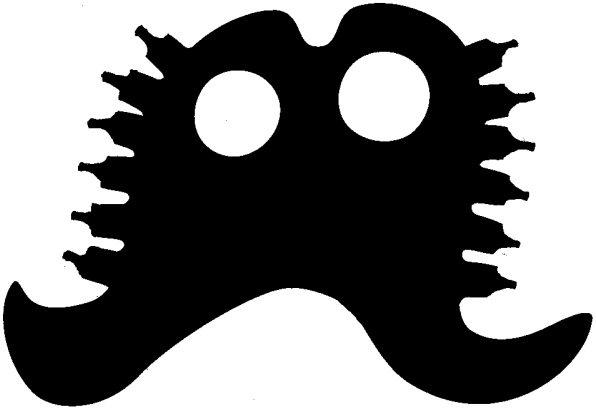


THE PROVIDENCE
FAB LAB
AT AS220 LABS



AS220 LABS IS A TEACHING SPACE, WORKSPACE, AND COMMUNITY JUNK PILE FOR SUPPORTING OPEN HARDWARE AND SOFTWARE PROJECTS. WE PERFORM THE TECHNICAL SUPPORT FUNCTIONS OF AS220, THE COMMUNITY ART SPACE IN PROVIDENCE RI. THE LABS HELP TO BUILD NEW TECHNICALLY LITERATE AUDIENCES AND ARTISTS BY RUNNING WORKSHOPS AND PROVIDING ACCESS TO TOOLS AND TECHNIQUES SUCH AS THOSE OF THE PROVIDENCE FAB LAB.

AS220

115 EMPIRE ST

PROVIDENCE RI

AS220.ORG/LABS

WHAT'S IN A FAB LAB?

THIS LIST OF EQUIPMENT AND PRICES IS BASED ON THE MIT FAB LAB INVENTORY DATED 11/2/08.



EPILOG LASER CUTTER

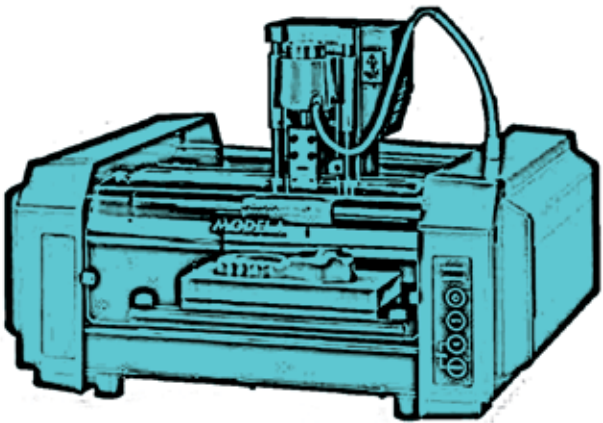
THE 35W LASER CUTTER IS ONE OF THE CRITICAL PIECES OF EQUIPMENT. WITH IT, YOU CAN MAKE PRECISE CUTS IN ACRYLIC, LAMINATES, AND THIN WOODS AND METALS. THE LASER CUTTER CAN ALSO BE USED TO FABRICATE PIECES OF OTHER TOOLS SUCH AS THE REPRAP PRINTER. THE AS220 PRINTSHOP WILL BE USING THE ETCHING CAPABILITIES OF THE LASER CUTTER TO PREPARE INTAGLIO AND LETTERPRESS PLATES. \$22,000 WITH VENTING AND A PUREX HEPA FILTER TO CATCH NASTY OFF-GASES.
[HTTP://WWW.EPILOGLASER.COM/](http://www.epiloglaser.com/)



SHOPBOT CNC ROUTER

THE SHOPBOT IS GREAT FOR PRECISION CUTTING OF LARGE SHEETS OF MATERIAL LIKE PLYWOOD. THE STANDARD FAB LAB SETUP SPECS A 96X48IN TABLE FOR \$7995. AS220 MAY END UP PURCHASING A 48X48IN TABLE, WHICH WOULD FIT BETTER IN OUR LIMITED SPACE. ADD A 220V 4HP SPINDLE FOR \$2895 AND, OF COURSE, A DUST COLLECTOR...

[HTTP://WWW.SHOPBOTTOOLS.COM](http://www.shopbottools.com)



MDX-20 MILLING MACHINE

THE MODELA DESKTOP MILLING MACHINE HAS A 8"X6" BED AND IS USED TO CREATE SMALL OBJECTS BY CUTTING AWAY MATERIAL. IT CAN ALSO BE USED AS A 3D SCANNER. \$4,495

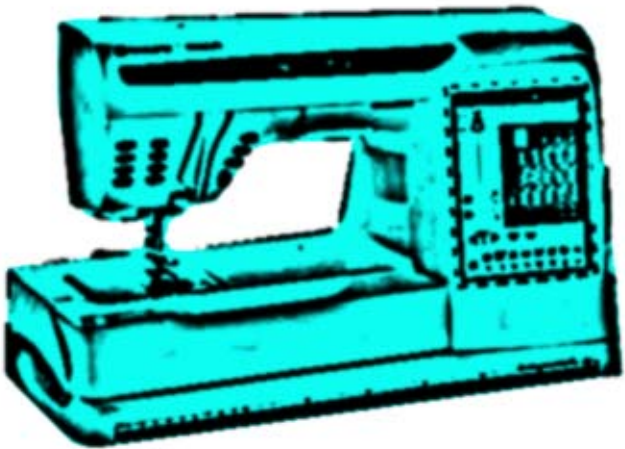
[HTTP://WWW.ROLANDDGA.COM/](http://www.rolanddga.com/)



CAMM-1 VINYL CUTTER

THIS MACHINE IS A STAPLE OF SMALL SIGN SHOPS: IT CUTS 2-DIMENSIONAL SHAPES ON ADHESIVE FILMS.

IN ADDITION TO VINYL SIGNS AND GRAPHICS, IT CAN CUT ADHESIVE-BACKED COPPER FOIL FOR PCBs AND STENCILS FOR SANDBLASTING, PAINTING, OR ETCHING. \$1,995



HUSQVARNA VIKING

DESIGNER SE

THIS COMPUTER CONTROLLED SEWING AND EMBROIDERY MACHINE WILL BE A UNIQUE ADDITION TO THE PROVIDENCE FAB LAB. WE WILL BE EXPLORING CREATIVE APPLICATIONS OF CONDUCTIVE THREADS, AS WELL AS EMBROIDERY GENERATED BY COMPUTER ALGORITHMS.

\$4,000



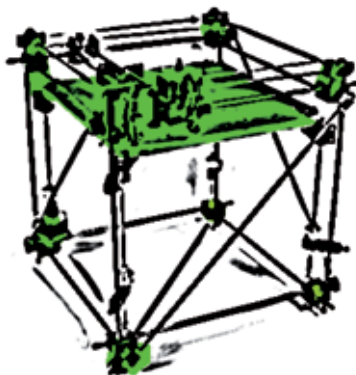
VIDEO TELECONFERENCING

THE PROVIDENCE FAB LAB WILL BE CONNECTED VIA VIDEO TELECONFERENCING TO MIT AND THE OTHER FAB LABS AROUND THE WORLD. \$2,700



PORTABLE SOLDERING WORKSHOP SETUP

WE HAVE A CART LOADED UP WITH 25 SOLDERING STATIONS. THE CART CAN BE ROLLED DOWN TO THE PERFORMANCE SPACE OR THROWN IN THE BACK OF A CAR TO RUN WORKSHOPS AT SCHOOLS OR LIBRARIES.



REP RAP

AS220 WILL HAVE A REPRAP: A 3D PRINTER DESIGNED SO THAT IT CAN PRINT COPIES OF ITSELF. THE NAME COMES FROM "REPLICATING RAPID PROTOTYPE MACHINE."

ELECTRONICS

TESTING EQUIPMENT

WE HAVE A BUNCH OF MULTIMETERS, BUT COULD USE A FEW MORE. ONE DECENT OSCILLOSCOPE SHOULD SERVE THE WHOLE LAB.

FUNCTION GENERATOR, 10 MHZ

POWER SUPPLY, TRIPLE OUTPUT, DC, DIGITAL, 30V, 3A

DIGITAL STORAGE OSCILLOSCOPE, 150 MHZ, COLOR

MULTIMETERS

WORKSHOP SUPPLIES

ALL OF THESE MATERIALS WILL BE USED FOR TEACHING WORKSHOPS AND PROTOTYPING ARTISTIC ELECTRONICS PROJECTS. WE COULD BE INTERESTED IN OLDER COMPONENTS, AS LONG AS THEY ARE NOT TOO HAZARDOUS (NO GIANT MERCURY SWITCHES, PLEASE!)

RESISTORS, CAPACITORS, CHOKES, DIODES, AND TRANSISTORS

REGULATORS, LEDS, PHOTO-DETECTORS, SPEAKERS AND MICROPHONES

THERMISTORS, OP-AMPS, MICROCONTROLLERS, RESONATORS, BUTTONS AND SWITCHES

MAGNETS, HEADERS, JACKS AND PLUGS

RIBBON CABLE, CONNECTORS, TEST CLIPS, ANTISTATIC BAGS, AND HEAT SHRINK TUBING

SOLDER AND SOLDERING EQUIPMENT

ULTRASONIC TRANSDUCERS, DC/SERVO/STEPPER MOTORS AND POWER SUPPLIES (24VDC AND 9VDC)

CONSUMABLE SUPPLIES

VINYL ROLLS

MACHINABLE PCB STOCK

BATTERIES AND SHARPIES

SMALL TOOLS

VARIABLE TEMPERATURE LAMINATOR

20" VARIABLE SPEED SCROLL SAW

ALSO, SCREWDRIVERS OR EXOTIC
PRECISION MACHINE TOOLS...

5 COMPUTERS

INTEL CORE DUO PROCESSOR 2.33GHZ
(OR EQUIVALENT) OR APPLE IMAC
INTEL CORE 2 DUO 2.16 GHZ (OR
EQUIVALENT)

EXTRA RAM

17 INCH FLAT PANELS

LCD PROJECTOR FOR TEACHING
AND CONFERENCING

BOOKS

OLD POPULAR ELECTRONICS!

ANYTHING FROM LINDSAY'S TECHICAL
BOOKS: WWW.LINDSAYBKS.COM

A COMPLETE COPY OF THE
ELECTRONOTES NEWSLETTERS,
INCLUDING THE MUSICAL ENGINEER'S
HANDBOOK, AND THE BUILDER'S
GUIDE AND PREFERRED CIRCUITS
COLLECTION

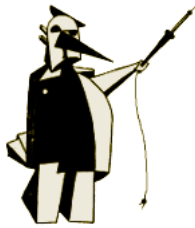
INTERESTING SERVICE MANUALS
AND TECH EPHEMERA

ABOUT OUR LOGO

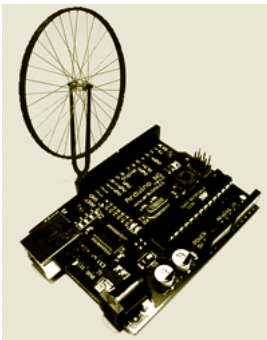
OUR LOGO IS A COLLAGE OF HANS ARP'S SCHNURRHUT (MOUSTACHE HAT) AND A 7410 DUAL INPUT NAND INTEGRATED CIRCUIT.



WE'VE ADOPTED A GENERAL DESIGN GUIDE FOR AS220 LABS THAT MASHES UP MODERN TECH GRAPHICS AND SYMBOLS WITH IMAGES FROM EARLY 20TH CENTURY AVANT GARDE ART MOVEMENTS. FOR EXAMPLE:



DADA GRAPHIC WITH SOLDERING IRON



ARDUINO WITH DUCHAMP READYMADE



LILYPAD ARDUINO PLUS
DUCHAMP FILM STILL