Electronics

Room Steward: Mark R Millsap

Expert at large on radio equipment and instruments: Allon Stern (Allon Stern)

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 - In the gray drawers, nearest the wire spool rack
 - Far Right, Lower Cabinet:
 - Middle Column, Lower Cabinet:
 - Far Right, Upper Cabinet:
 - Middle Column, Upper Cabinet:
 - Far Left, Lower Cabinet:
 - Far Left, Upper Cabinet:
 - In the gray drawers, nearest the entrance door:
 - Far Right Column:
 - Middle Column:
 - Far Left Column:
 - In the Black Boxes with Yellow Tops
 - Drone (quadcopter) Hardware
 - Instruments, accessories and equipment
 - HP/ Agilent ESG Series User Manual

Overview

The Electronics Room provides a space where members can solder, use power supplies, oscilloscopes and small hand tools to build electronics projects, and find resources to help with their projects.

Rules

- 1. If you don't know how to use a tool or piece of equipment, don't. Some equipment can be damaged through misuse. Refer to the pages here for guidelines for specific operation of these tools and owners of equipment that is on loan to the space.
- 2. Clean up when you are finished. Put all hand tools back on the pegboard where they came from, sweep any loose solder, wire pieces, and other detritus from the bench into the trash can.
- 3. Leave the equipment powered off. Never leave the soldering iron turned on it is recommended to turn the large power strip off when you are leaving the space.
- 4. Mark any works in progress with your name and phone number. Do not leave works in progress in the lab for an extended period of time without approval. Unmarked projects may be scavenged or tossed.

Resources

The electronics room contains a couple of benches with basic equipment, a bookshelf, and parts drawers galore. Not all parts are free for use!

The blue parts bins stacked on the wall contain donated parts. You are free to use these parts, but be a good steward of these resources. If you experiment with a part, unless you are SURE it is undamaged, do not return it back to the bins. Please ask before using large numbers of parts. The intent is that these be available for electronics use, NOT as decorations for art projects (that said, if you need decorations for art projects, there are some select parts that might be suitable for such).

The parts on top of the bookshelf belong to Allon Stern. Please let him know if you need to use any parts - if you need one or two random bits, it's okay but if you need more than that, please let him know and make arrangements to pay for the parts or replenish them.

The following is the text of a Google doc that was created listing some of the resources in the Electronics Lab and in particular, in the black and yellow bin boxes on the shelf above the benches:

(4/20/23 Rats. The pictures didn't come across, so we'll have to add them soon...)

Resources in the Electronics Lab Listing

In the gray drawers, nearest the wire spool rack

Far Right, Lower Cabinet:

RF - Filters

Short RF Cables
RF mixers, Doublers
Detectors, Bias Tees
Small Amps
Couplers, Dividers, Hybrids
50ohm Loads / Terminators
Noise & Power Measurement
Isolators / Circulators
Middle Column, Lower Cabinet:
Proto Boards
RF Connectors (small)
Far Right, Upper Cabinet:
Mosfets (2 drawers)
Middle Column, Upper Cabinet:
Heat Shrink Tubing
Terminal Strips
LEDs (various colors and sizes)
LEDs On Leads
Header Strips (2 drawers
Circuit Breakers / Fuse Holders
Small MOLEX Connectors
Audio Plugs & Connectors
Ring Terminals / Barrel Connectors / USB Connectors
Far Left, Lower Cabinet:
????
????
LED Light Strips
8-segment Numeral Displays, Meter Displays, LED Strips
Empty
Empty
Capacitors
Capacitors
High Voltage Capacitors
Empty

Attenuators

Far Left, Upper Cabinet: Panel Meters, Displays Knobs Trim Pots Potentiometers DIP Switches, 8 DIP Switches, Shaft Encoders Toggle Switches Buttons & Tactile Switches Octal / BCD Thumbwheels Power Relays & Sockets

In the gray drawers, nearest the entrance door:

Far Right Column:

Bumpers, Feet, Grommets

Rubber Feet & more Grommets

Component Heatsinks

Handles (small rectangular for project boxes)

Jumpers, Hook Up Wires

Cat-5 Patch Cables - 10' snagless

Voice / Data Connectors (Jacks)

Middle Column:

Standoffs, Spacers

Jackscrews

Nylon Standoffs, Spacers

Nylon Screws / Nylon Nuts

Far Left Column:

Panel Mounting Hardware

Nylon Washers

Metal Nuts, Washers, PC Screws

In the Black Boxes with Yellow Tops

RF Assemblies, Heat Sinks & Fans (for PC type enclosures)

Heat Sinks (Heavy Box!!!)

Mostly DB-? Connectors (DB-9, DB-25, and others) & some random stuff (with Picture) $\,$

Nuts, Bolts, Screws, Standoffs, Spacers

Lots of loose parts in small bottles

ICs in tubes. 100s of them.

RF Parts & Assemblies, LCD Panels, More ICs in tubes.

RF Power Supplies, Power Converters, Selectors, Transformers (heavy box)

Project Boxes (some used), misc. metal bits

BNC Connectors (100s of them), DB-9 connectors, DB-25 connectors, RF connectors, RCA Audio cables (heavy box)

Whole Box of Resistors (1000s of them. Yes, lots and lots of them!)

2nd Sort - Allon, Connectors (?)

Wire on Spools (Various gauge wire on spools)

Project Boxes, Thinflex Cable, Lamp Cord, Screws & Misc. Stuff

Project Boxes

Inductors, Capacitors, Limiters, 70's era MOLEX Connectors

Drone (quadcopter) Hardware

Box #1:

Flight controller

Four (4) carbon fabric blades on motors

Drone frame

Battery Charger

A few small batteries

Power Supply / Battery Charger?

Box #2:

Drone Frames

Audio Cables

A bunch of other stuff

Instruments, accessories and equipment

Item	Instructions	Respon sible	Picture
Kungber DC Power Supply (SPS series) (New to Makersmiths 08/23)	Manual: User Manual (captured text from photos) Photos: Photos of Manual Pages	Room Stewar ds	Coming Soon
MPJA 9333-PS Dual 3A 0-30V /5V@3A Fixed Power Supply	Manual: 9333ps.pdf	Allon Stern	

BlackJack SolderWerks BK 8000 Dual Port / Dual Pump Repairing System	Manual: Bk8000.pdf	Minh Vu	TOTAL COLUMN TO THE PROBLEM TO THE P
HP ESG- 4000A Signal Generator	Specifications HP/ Agilent ESG Series User Manual		District on the last of the la
	Certes Oser Marida		
8648c signal generator	Specifications Data Sheet		
Agilent/ HP 8596E Portable Spectrum Analyzer, 9 kHz to 12.8 GHz	manual Data sheet		
			SOME STATE OF THE

Stanford Research Srs Ds335 3.1 mhz Precision Function Generator	manual	500000

If you need to edit the page and formatting there are some instructions you could follow here