CABINET **#1**

* WiFi Routers and Hubs
* LEAP motion controller
* HTC Vive headset
* Wireless antennae
* Vuzix M100 Smart Glasses
* Ultrasonic cleaner
* Solo8 Hovercam
* Power strips
* Project Boxes and Enclosures
* Various sizes
* Heat sinks

Struggling to find supplies/components/parts?

Ask your Project Engineer

* Fancy electrical tools
	+ Crimper
	+ Wire stripper
* Motors & Controllers & Drivers
	+ DC
	+ AC
	+ Gear
	+ Stepper
	+ Servo

CABINET **#2**

Microprocessors

* Raspberry Pi, Pi Zero, camera & macro lens
* Arduino Mega, Uno, Due, etc…
* ESP32
* Beagle Board
* ATtiny
* LITEC 8051
* Silicon Labs development kit

Shields, Sensors, and Peripherals

* PIR – Passive Infrared Sensor
* Accelerometers
* Temp and humidity – SHT85 and PCB holder
* Light Sensor
* Ultrasonic Range Finder
* 5V Power Supplies
* Headers – single row, double row, straight, 90°
* Jumper Wires – male & female
* KITS of Sensors and Parts
	+ Arduino, Grove, Adeept

Mobile Studio Boards

Digital Acquisition Equipment (DAQ)

* NI 6008, 6009, 6211, 6501

Analog Discovery board

Android Tablets

PSoC kits

* Pioneer
* Pioneer BLE
* Pioneer WiFi-BT
* 5lp Development Kit
* MiniProg3

External disk drives – 1TB

Microsoft Kinect

Servos and Linear Actuators

Motor drivers – DRV8833

Adaptors

* USB -> RS232
* USB -> RS422
* USB -> Dynamixel Servo Interface

Wall Wart Chargers – USB-AA, USB-C

Flexi-Force Sensors

Struggling to find supplies/components/parts?

Ask your Project Engineer

CABINET **#3**

Fibrance (fiber optic cable)

* Material
* Joining kit

Precision Stages

Hot Wire Foam Cutter

Light box

Optical equipment

* Filters
* Lenses
* Mirrors
* Mounts

Circuit Board Mfg Tools

Strobe Light

Strain Gauge Modules

Pressure Transducer Module

Camera & Frame Grabber

Struggling to find supplies/components/parts?

Ask your Project Engineer

Magnetic Bases

CABINET **#4**

Plumbing fittings – liquid & pneumatic

* Swaglok
* Conax
* Quick connect
* Compression
* Barbed – PVC, brass, stainless

Assorted Hose and Tubing

Flow Meter

Pressure Transducer

Pressure Gauge

Syringes and Luer lock tips

Solenoid valves, Motorized valves

Vacuum Pump & Venturi Vacuum Generator

Electric Air Pump

Suction Cups

Thread Sealant

Struggling to find supplies/components/parts?

Ask your Project Engineer

Manometer

Air Filters

Thermal Instruments

* Thermistors
* Thermocouples

Strain Gauges

CABINET **#5**

Test and Measurement Equipment

* Accelerometer
* Digital Micrometer
* Infrared Thermometer
* Light Meter
* Current Sensor
* Sound Level Meter
* Torque Sensor
* Tachometer
* Bar code Scanner
* Laser distance Sensor
* Humidity & Temperature Sensor
* Microwave Leakage Detector
* RF Meter
* Anemometer
	+ Fan style
	+ Hot wire
* Blood Pressure & Pulse Monitor
* Hall Effect Sensor
* Load Cell – Sparkfun S-10245

Struggling to find supplies/components/parts?

Ask your Project Engineer

* Bridge for Strain Gauge
* IR Camera

Prototyping Supplies

* Legos
* Technics
* Capsela
* Electronics Lab Kit

Vacuum Cleaner

Vintage LabVIEW install disks

Amazon Echo & Echo Dot

Electromagnets

Pad locks

Projector Bulbs

USB Microscope

Cell Phone Camera Lens

Surface Roughness Standard

Magnetic Clutch

HD webcam

AC/DC Control Relay

Temp probe – DSI8B20

Power Analyzer

Data Loggers

* Temperature
* Current AC & DC

CABINET **#6**

Safety Equipment

* Gloves
* Hearing Protection
* Face Shield (on top of cabinet)
* Aprons – Static, Chemical

Electric power components

* Batteries & Chargers, Battery Holders
* Power supplies – 5V, 12V, 15V, 24V, 9V, adjustable
* Extension Cords
* Variac
* Isolation Transformer
* Plugs and Sockets – 120V, 240V

Hot plate

Muffin Fans – DC & AC

Terminal Blocks

Cable Wrap

Struggling to find supplies/components/parts?

Ask your Project Engineer

Relays

DIN rail – Terminal Blocks, Relays, Rail

Flashlights



CABINET **#7**

Raw Materials

* Foam
* Rubber Sheet
* Weather Stripping
* Aluminum Foil, Plastic Wrap, Wax Paper

Glassware

* Graduated Cylinder
* Beaker
* Funnel

Fiberglass resin

Tape – Duct, Double Sided, Plastic, Teflon, Electrical, Special, Copper

Glue – Sealant, Elmer’s, Cyanoacrylate (Super Glue), JB Weld, PVC cement

Grease – White Lithium, Silicone, Mold Release, Petroleum Jelly

Oil – Canola, Vacuum, Motor

Vacuum Sealant

Struggling to find supplies/components/parts?

Ask your Project Engineer

Bubbles

Baby Powder

Graphite Powder

Twine, Rope, String

Vacuum Sealer

Heat Shrink Tubing

Paper Bags

Paper Cups

Craft Sticks (Tongue Depressors)

Magnets – on inside of door

CABINET **N**

Watt Meters

Tool Boxes

DB9 RS232 cable

USB Connectivity

* Type B cables
* Mini B cables
* Micro B cables
* USB Hubs
* USB Extender

Video Cables

* VGA
* HDMI
* DVI and splitters
* Adapters

Struggling to find supplies/components/parts?

Ask your Project Engineer

Networking Equipment

* Ethernet Cat 5/6 cable
* Routers, Access Points & Hubs

Telephone cord

Protoboard – small, medium, large

Extra Shop Supplies

* Drill bit sets
* Digital calipers
* Ratchet handles
* Headers - Straight & 90°
* Soldering iron & solder & tips
* Solder sucker
* Multi-meters
* Third hand grips
* 5V wall warts
* Wire – 22 AWG

High Wattage Resistors

1/2 Watt and up

DRAWERS

(downstairs in fabrication shop JEC 2322)

**LEFT set of drawers**

Metric hardware - screws, bolts, nuts, washers

* M2 - M15

Magnet wire

Cable wrap

Capacitors, potentiometers, switches, inductors, sensors, resistors

Spade lugs, small motors, LEDs

ICs transistors, PCBs, protoboard, through mount boards

Pipe clamps & hangers

Hose fittings & clamps

Pipe fittings - iron, brass, PVC, plastic

**CENTER set of drawers**

Nuts and washers

Pins - cotter, clevis

Set screws, threaded inserts

Collars, bearings, shoulder bolts, knobs

Springs, handles, catches, eye screws

Clamps, turnbuckles, hold-downs

Wood screws

Pan head and sheet metal screws

Lag screws, anchors, brackets

Wire cable

O-rings

Chain

**RIGHT set of drawers**

Imperial (standard) hardware - screws, bolts, nuts, washers

* # 0 - # 12, 1/4" - 1/2"

Threaded rod

Raw material - tube, bar, flat stock

Gears, feet, casters

**TOP of drawers**

Allen wrenches

Sandpaper

Crimp connectors

Metric hardware



Struggling to find supplies/components/parts?

Ask your Project Engineer

80/20 CABINET

(downstairs in fabrication shop JEC 2322)

95% of inventory is 1" x 1" Single Four Slot Rails (also called 25 series)

More information & part names - <https://www.mcmaster.com/structural-framing/>

* Bolts, nuts, double nuts, hammer nuts
* Brackets - corner, extended corner, open gusset, Tee surface, 90° surface
* Standard sleeve bearings
* Framing pivots
* MANY rail pieces 1" to 36" length
* Please **DO NOT CUT** any of the existing pieces during team's initial prototyping and exploration. Just assemble and test with extra length. Then once team knows what is actually needed, material can be ordered or cut to proper size.

Struggling to find supplies/components/parts?

Ask your Project Engineer

