

Build-out of Lab

Build-out Materials							
Item	Description	Make	Model	Source	Cost	Notes	
	Adjustable shelves, 3x 3x 4'x16"						
	2x 8'x4' 3/4" plywood, cut to 4'x16" boards			Home Depot	\$100.00		
	Shelf brackets, heavy duty, 16", 18x			Home Depot	\$180.00		
	Shelf tracks, heavy duty, 60", 6x			Home Depot	\$102.00		
	Mounting hardware			Home Depot	\$50.00		
	Ceiling Mounted Outlets			Home Depot	\$250.00		
	Twist lock outlets on ceiling					4x 125 V/15 A, incl. wire, mounting hardware, 6' extension drops with multiple outlets	
	Miscellaneous storage, hardware etc.				\$300.00		
	2' x 4' Ceiling Tiles	USG Ceilings	Fifth Ave White	Home Depot	\$84.50	Square Edge Lay-In Ceiling Tile (Case of 8 x 2 cases)	
	Sheet Drywall, Spackle, Paint, Finishing Supplies				\$300.00		
	Pegboard & Frame				\$200.00		
	Clearcoat Epoxy Sealant						
	Rust-Oleum EpoxyShield Clear	Rust-Oleum	365188 / 10061	Home Depot	\$180.00	Top Coat on Floor, High-Gloss 2-part Epoxy Top Coat	
				Sub-Total:	\$1,746.50		
Tools							
Item	Description	Make	Model	Source	Cost	Notes	
	3x 12x power strips for workbenches			Harbor Freight	\$60.00	For workbenches, 4'-0" long with 45" cord.	
	Misc. tools and materials for assembly kits				\$600.00		
	Soldering station, 2x	Hanko	FX-888DX	Hanko	\$250.00	New Hanko Soldering Stations	
	Rework station/3rd hand, 4x	Adafruit	Product: 5253	Adafruit	\$120.00		
	Smoke Absorber 4x	Lucky High	NA	Amazon	\$104.00		
	Computers				\$2,000.00		
	Monitors				\$1,000.00		
	Home Assistant Workstations				\$200.00		
	SBCs & Microcontrollers				\$200.00		
	Reflow Oven				\$600.00		
	Digital Oscilloscope				\$600.00		
				Sub-Total:	\$5,734.00		
Furniture							
Item	Description	Make	Model	Source	Cost	Notes	
	Workbenches on casters	Husky	HOLT5202B12	Home Depot	\$924.00	(3) Husky, Adjustable Height with 2-drawers, Black, 13' total length	
	Workbenches on casters	Husky	HOLT6202B12	Home Depot		(3) Husky, Adjustable Height with 2-drawers, Black, 15'-6" total length, \$329 ea.	
	Heavy duty wire racks			Home Depot	\$387.00	(3) 4' wide x 6' tall x 18" deep	
	(4) Nesting Tables, 24" deep x 48" wide, on castors	Correll	FT2448	Today's Classr	\$1,400.00	Rectangular Adjustable Height High Pressure Laminate Flip Top Nesting Table	
	(12) Nesting Chairs, on castors, without arms	Office Source	110-SFA428	Bestar2go.com	\$4,080.00	Armless Nesting Chair	
	Upstairs Monitor				\$200.00	Monitor to be able to see if anybody is upstairs (safety monitoring)	
	(2) Cubby Lockers			Amazon?	\$300.00	Ask Jessee where she got the two existing ones	
				Sub-Total:	\$7,291.00		
Video Conferencing Set-Up							
Item	Description	Make	Model	Source	Cost	Notes	
	Audio Equipment						
	(2) Mix-Minus	Audio Technica	AT-MX314A	eBay	\$100.00	Per suggestion from Allon, link is to a similar model.	
	(1) Alternate Mix Minus	Behringer	1204USB	Sweetwater	\$400.00	Per suggestion from Allon	
	USB Cables	StarTech.com	Active Extensio	Sweetwater	\$220.00	May not be needed.	
	Microphone cables	Hosa	XLR-120 - 20'	Sweetwater	\$80.00	May not be needed.	
	(4) Speakers	AtlasIED	FAP42TC	Sweetwater	\$500.00	4.25 depth of fixture. 16W 70V/100V low-profile ceiling speaker pair - White	
	(4) Microphones	Audio Technica	Pro 45 Cardioid	Sweetwater	\$450.00	Condenser Hanging Microphone - White	
	Audio Amplifier	JBL	CSA 180Z	Sweetwater	\$420.00	80W 70V / 100V Power Amplifier - Allon, how would we or should we control volumn at each speaker? Or maybe control volumn at a pair? Say volumn control seperated by front and back pair?	
				Sub-Total:	\$2,170.00		
	Video Equipment						
	(2) Conference Room Cameras	Logitech	4K Pro	Sweetwater	\$420.00	4K / 90FPS, Auto Light Correction, Auto Focus	
	(2) Large Video Monitors	Samsung UHD	DU6900	Best Buy	\$1,180.00	Actual Product Dimensions: 66" wide x 37.9" high x 2.4" deep	
	Elgato Stream Deck Desktop Interface	Elgato	Mk.2	Sweetwater	\$170.00	Desktop Interface for selecting streaming arrangements	
				Sub-Total:	\$1,770.00		
				Total:	\$18,711.50		