Supplementary Table 2: Bill of Materials

Part #	Item	Serial Number	Amt.
3D Printed Parts: Shapeways.com			
1	Sipper Tube Mounting Bracket		1
2	ACRoBaT Housing		1
3	Peristalic Pump Mount		1
4	ACRoBat Mounting Plate		1
5	Joystick Mount		1
6	Joystick Handle		1
7	Joystick Attachment		1
Printed Circuit Boards: OSHPark.com			
1	LED Board		1
2	Joystick Board		1
Sparkfun			
1	Arduino Pro-Micro 5V/16MHz	DEV-12640	1
2	Arduino Stackable Header - 6 Pin	PRT-09280	4
3	N Channel Mosfet (TO-220)	COM-10213	1
4	Ribbon Crimp Connector - 6-pin (2x3, Female)	PRT-10651	4
5	Ribbon Cable - 6 wire (15ft)	CAB-10646	1
6	Resistor 330 Ohm 1/6 Watt PTH - 20 pack	COM-11507	1
7	BNC Connector - Right Angle	PRT-10550	2

8	DC Barrel Jack Adapter - Breadboard Compatible	PRT-10811	1
9	Header - 2x3 (Male, 0.1")	PRT-12807	4
10	LED - Super Bright White (25 pack)	COM-09850	1
11	SMD LED - Red 1206 (strip of 25)	PRT-12619	1
12	SparkFun Capacitive Touch Breakout - AT42QT1010	SEN-12041	2
13	Break Away Male Headers - Right Angle	PRT-00553	1
14	Break Away Headers – Straight	PRT-00116	1
15	Wall Adapter Power Supply - 12VDC 600mA	TOL-09442	1
16	USB microB Cable - 6 Foot	CAB-10215	1
17	Thumb Joystick	COM-09032	0

Adafruit

1	0.1" 36-pin Strip Right-Angle Female/Socket Header (5 pack)	1542	1
2	Peristaltic Liquid Pump with Silicone Tubing	1150	1

Digikey

1	MAX6966	MAX6966AEE+-ND	2
2	TXB0108PWR	296-21527-1-ND	1
3	APEM Inc. TSAA1S00A Joystick	1040-1030-ND	1

McMaster Carr

1	Type 316 Stainless Steel Hex Nut 4-40 Thread Size, 1/4" Wide, 3/32" High (Pack of 100)	90257A005	1

2	Type 316 Stainless Steel Pan Head Phillips Machine Screw 4-40 Thread, 3/4" Length (Pack of 50)	91735A113	1
3	Type 316 Stainless Steel Pan Head Phillips Machine Screw 4-40 Thread, 7/16" Length (Pack of 50)	91735A105	2

Other

1	Acrylic behavioral arena approximately 12" x 8" x 16" (height x width x length)
2	Sipper Tube http://www.altdesign.com/products/rodent-ivc/straight-open-stainless-steel-2-5-sipper-tube/
3	22 gage wire

Assembly Equipment

1	Solder Station
2	Solder
3	Solder Paste (for surface mount components)
4	Microscope
5	Helping Hands
6	Wire Stripers
7	Wire Cutters
8	Philips Screwdriver
9	Drill (for mounting ACRoBat on behavioral arena)