

Materials List for:

A Vibrotactile Feedback Device for Seated Balance Assessment and Training

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Materials

Name	Company	Catalog Number	Comments
Chassis	McMaster-Carr	8657K421	Moisture-Resistant LDPE Polyethylene Sheet 1-1/2" Thick, 24" X 24"
Lid	McMaster-Carr	8657K414	Moisture-Resistant LDPE Polyethylene Sheet 1/4" Thick, 24" X 24"
Base	McMaster-Carr	8657K414	Moisture-Resistant LDPE Polyethylene Sheet 1/4" Thick, 24" X 24"
Grip-Tape	McMaster-Carr	6243T471	Nonabrasive Antislip Tape, Textured, 6" Wide Strip, 2' Long, Black
Base Nut	McMaster-Carr	90596A039	Steel Round-Base Weld Nut, 5/8"-11 Thread Size
Weld Plate	McMaster-Carr	1388K142	Low-Carbon Steel Sheet 1/16" Thick, 3" X 3", Ground Finish
Threaded Rod	McMaster-Carr	90322A170	3" 5/16"-18 Medium-Strength Alloy Steel Threaded Stud
Sleeve	McMaster-Carr	8745K19	Chemical-Resistant PVC (Type I) Rod 1-1/4" Diameter
Square Flange	McMaster-Carr	8910K395	Low Carbon Steel Bar, 1/8" Thick, 1" Wide
Hitch	McMaster-Carr	4931T123	Bolt-Together Framing Heavy-Duty Steel, 1-1/2" Square
Curved Base	McMaster-Carr	8745K48	PVC Rod, 6" Diameter
Hitch Insert	McMaster-Carr	6535K313	Bolt-Together Framing Heavy-Duty Steel, 1" Square
Extrusion	McMaster-Carr	6545K7	1045 Cold Drawn Steel Square Bar Stock, 1' X 1" Wide, Unpolished
Clamp	Vlier	TH103A	Adjustable Torque Knob
Footrest	McMaster-Carr	6582K431	4130 Steel Tubing, 1" X 1" Wide, 0.065" Wall Thickness, Unpolished Mill Finish
Counterweight	McMaster-Carr	8910K67	Low-Carbon Steel Rectangular Bar 1-1/8" Thick, 4" Width
Clevis Pin	McMaster-Carr	97245A616	Zinc-Plated Steel Clevis Pin with Hairpin Cotter Pin, 3/16" Diameter, 1-9/16" Usable Length
Microprocessor	Arduino	MEGA 2560	Microcontroller board with 54 digital I/O pins and USB connection

<i>Inertial Measurement Unit</i>	x-io Technologies Ltd.	x-IMU	Inertial Measurement Unit and Attitude Heading Reference System with enclosure
<i>Vibrating Tactor</i>	Precision Microdrives	DEV-11008	Lilypad Vibe Board, available from SparkFun Electronics