




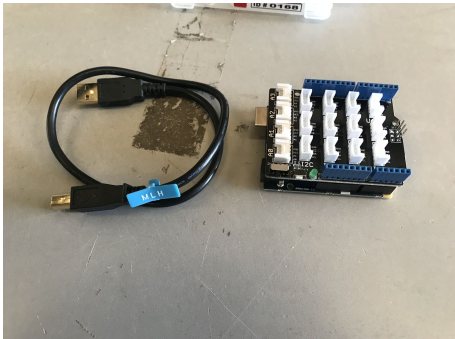






# MLH | Hardware Lab

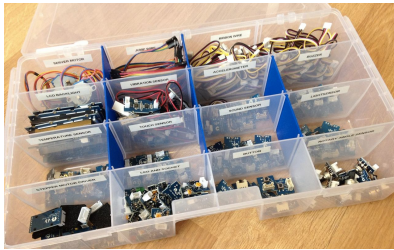
Presented by 

## INTERNATIONAL PALLETS

Count / Device	Component(s)	Description
<b>3 Amazon Echo Dot</b> 	Brick charger 	Voice-controlled smart speaker with Alexa. Part of the Echo line of cylindrical voice-controlled computing devices that connect to the Alexa Voice Service for providing responses to questions, playing music, reporting on weather, news or sports scores and more.
<b>1 Amazon Echo Show</b> 	Brick charger 	Smart speaker with Alexa. Similar to other products in the Echo line, but additionally features a touchscreen display that can display visual information to accompany responses, as well as to conduct video calls.
<b>5 Arduino 101 + Base Shield Kit</b> 	Shield & USB Cable 	Arduino: An open-source physical computing platform based on a simple microcontroller board, and a development environment for writing software for the board.  Base Shield: Grove module connector

<p><b>1 Digi-Key Component Kit</b></p> 	<p>Components include:</p> <ul style="list-style-type: none"> <li>• Soldering Equipment</li> <li>• Tools</li> <li>• Cameras</li> <li>• Sensors</li> <li>• Wires</li> </ul> <p>See pages 5-7</p>	<p>Case containing tools necessary for hardware hacks, as well as additional gadgets and accessories</p>
<p><b>2 Dell XPS 13 Laptop</b></p> 	<p>Laptop charger</p>	<p>Laptop runs on either Windows 10 or Ubuntu</p> <p><i>Note: Mexico only</i></p>
<p><b>2 Fitbit</b></p> 	<p>Charger &amp; Additional Straps</p>	<p>A smart watch fitness tracker that uses a 3-axis accelerometer</p>
<p><b>4 Google Home Mini</b></p> 	<p>Power cable</p> 	<p>Voice-controlled, hands-free speaker. Google Home Mini is Google Assistant anywhere you want it. Ask it questions. Tell it to do things. It's your own Google, always ready to help.</p>

## 1 Grove Starter Kit Components



Various modules in a tackle box

A modular electronic platform for quick prototyping. Every module has one function, such as touch sensing, creating audio effect and so on. Just plug the modules you need to the Base Shield, then you are ready to test your idea buds.

## 2 Leap Motion



Leap Motion Cable



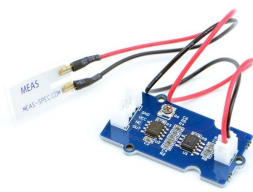
The Leap Motion Controller senses your hands and fingers and follows their every gesture. Has a C++, Unity, Objective C (IOS), Java, Python and Javascript SDK.

## 4 Raspberry Pi 4 B Kit



Grove Base HAT for RPi  
USB-C Power Supply  
1 Ft Ethernet Cable  
1 Ethernet Adapter

Small single board computers with 1 GB of RAM, gigabit ethernet, micro HDMI ports, and a quad core processor. It does everything a desktop computer can do, and is a developer staple.

 <p><b>1. Digital Multimeter MN35-ND</b></p>	 <p><b>2. Soil Moisture Module 1568-1360-ND</b></p>	 <p><b>3. Mini Spy Camera 1528-1799-ND</b></p>	 <p><b>4. Pointed Tweezers EROPAASA-ND</b></p>
 <p><b>5. Wire Strippers K604-ND</b></p>	 <p><b>6. Flush Cutters 1742-1083-NDD</b></p>	 <p><b>7. Needle Nose Pliers 243-1215-ND</b></p>	 <p><b>8. Curved Tweezers EROP7SA-ND</b></p>
 <p><b>9. IR Break Beam Sensor 1528-2526-ND</b></p>	 <p><b>10. Snappable Protoboard 1568-1129-ND</b></p>	 <p><b>11. Logitech Webcam C270</b></p>	 <p><b>12. DC Gearbox</b></p>
 <p><b>13. 9g Micro Servo</b></p>	 <p><b>14. Grove Stepper Motor</b></p>	 <p><b>15. Grove LCD</b></p>	 <p><b>16. Grove Vibration Sensor</b></p>





**17. 22 AWG Wires**  
1568-1358-ND



**18. Ceramic Capacitors**  
BC3213-ND



**19. Resistor Kit**  
RS125-ND



**20. Solderless Breadboard**  
(Large and Small)



**21. Jumper Wire**  
Male - Male  
Male - Female  
Female - Female



**22. Soldering Iron**  
(60W)  
cc



**23. Solder Cleaning Station**  
1691-1006-ND



**24. RGB LED Strip**  
1528-2512-ND



**25. Lead Free Solder**  
473-1251-ND



**26. Desolder Braid**  
40-4-5-ND



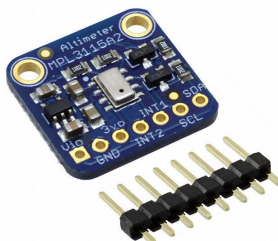
**27. 7 Segment Serial Display**  
1568-1533-ND



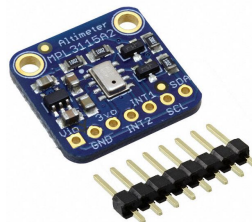
**28. Grove Wire**



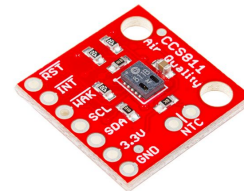
**29. Ultrasonic Distance Module**  
1568-1421-ND



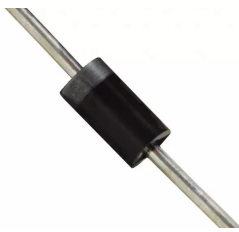
**30. Barometer Sense Board**  
1528-1034-ND



**31. Load Cell Amplifier**  
1568-1436-ND



**32. Air Quality Sensor**  
1568-1597-ND



**33. 1N5817 Diode**  
1N5817FSCT-ND



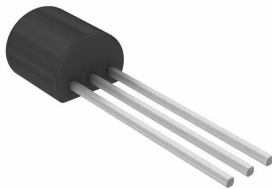
**34. Joystick**  
1528-1730-ND



**35. Through Hole Mosfet**  
IRFZ44NPBF-ND



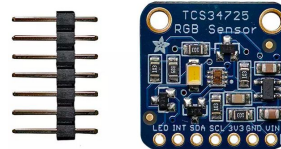
**36. 10k Trimmer**  
1568-1616-ND



**37. 23904 Transistor**  
2N3904FS-ND



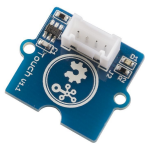
**38. UV Index Sensor**  
1528-1694-ND



**39. RGB Color Sensor with IR Filter**  
1528-1378-ND



**40. Grove Button**



**41. Grove Touch Sensor**



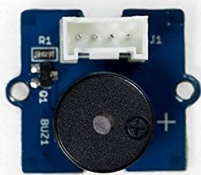
**42. Grove Light Sensor**



**43. Grove Temp Sensor**



**44. Grove Rotary Angle Sensor**



**45. Grove Buzzer**



**46. Grove 3 Axis Digital**



**47. Grove Sound Sensor**



**48. Grove LED**



**49. Misc. Buttons**



**50. Misc. Switches**



**51. Misc. LEDs**  
Pink: 754-2184-ND  
Cyan: 754-2183-ND  
Purple: 67-2064-ND