1.Arduino toolkit set /Arduino 套装

数量:15(每人一份)

2.Arduino Leonardo /Arduino莱昂纳多板 (用于键盘控制)

http://www.dfrobot.com.cn/goods-552.html

数量:5

- 2.万用表/剥线钳/剪线钳/卷状导电线(红黑蓝黄) 若干
- 3.面包板/跳线 若干

4.General sensors/常用感应器:

这些会让学生做练习时候使用. 数量每种15个:

From seeedstudio/矽递科技:

water sensor/水感应

http://www.seeedstudio.com/depot/Grove-Water-Sensor-p-748.html?cPath=25 27

touch sensor/触摸感应

http://www.seeedstudio.com/depot/Grove-Touch-Sensor-p-747.html?cPath=85_94 temp&humi sensor/温度&湿度感应

http://www.seeedstudio.com/depot/Grove-TempHumi-Sensor-p-745.html

ultrasonic sensor/超声波测距感应

http://www.seeedstudio.com/depot/Grove-Ultrasonic-Ranger-p-960.html

moisture sensor/湿度感应

http://www.seeedstudio.com/depot/Grove-Moisture-Sensor-p-955.html?cPath=25 27

From DFrobot/智位机器人:

Analog sound sensor/声音感应(模拟信号)

http://wiki.dfrobot.com.cn/index.php?title=(SKU:DFR0034)%E6%A8%A1%E6%8B%9F%E5%A3%B0%E9%9F%B3%E4%BC%A0%E6%84%9F%E5%99%A8

vibration sensor/震动感应

 $\frac{\text{http://wiki.dfrobot.com.cn/index.php?title=(SKU:DFR0027)\%E6\%95\%B0\%E5\%AD\%97\%E9\%9C\%87\%E5\%8A\%A8\%E4\%BC\%A0\%E6\%84\%9F\%E5\%99\%A8}{A0\%E6\%84\%9F\%E5\%99\%A8}$

distance sensor (10-80cm)/距离感应(区间:10-80厘米)

http://wiki.dfrobot.com.cn/index.php?title=(SKU:SEN0014)Sharp GP2Y0A21 %E7%BA%A2%E5%A4%96%E6%B5%8B%E8%B7%9D%E4%BC%A0%E6%84%9F%E5%99%A8(10~80cm)

distance sensor(100-500cm)/距离感应(区间:20-150厘米)

http://wiki.dfrobot.com.cn/index.php?title=(SKU:SEN0013)Sharp_GP2Y0A02YK_%E7%BA%A2%E5%A4%96%E6%B5%8B%E8%B7%9D%E4%BC%A0%E6%84%9F%E5%99%A8 (20~150cm)

这些学生做project, 依照nyu的经验, 使用频率极高, 数量每种3个:

From seeedstudio/矽递科技:

ear clip heart rate sensor/夹耳式心率感应

http://www.seeedstudio.com/depot/Grove-Earclip-Heart-Rate-Sensor-p-1116.html?cPath=25 29

PIR motion sensor/动作感应

http://www.seeedstudio.com/depot/Grove-PIR-Motion-Sensor-p-802.html?cPath=25_31 color sensor/颜色感应

http://www.seeedstudio.com/depot/Grove-I2C-Color-Sensor-p-854.html

air quality sensor/空气质量感应

http://www.seeedstudio.com/depot/Grove-Air-quality-sensor-p-1065.html?cPath=25_127 dust sensor/粉尘感应

http://www.seeedstudio.com/depot/Grove-Dust-Sensor-p-1050.html

electricity sensor/电力感应

http://www.seeedstudio.com/depot/Grove-Electricity-Sensor-p-777.html?cPath=25_28 luminace sensor/照度感应

http://www.seeedstudio.com/depot/Grove-Luminance-Sensor-p-1941.html rotary angle sensor/扭转角度感应

http://www.seeedstudio.com/depot/Grove-Rotary-Angle-Sensor-p-770.html?cPath=85_52

5.Lab materials/工作营材料:

lab 01/工作营01:

1. AC DC charger / 交流转直流充电器

https://item.taobao.com/item.htm?spm=a230r.1.14.6.P1i1bZ&id=45015320456&ns=1&abbucket =2#detail

数量:15

2. voltage regulator / 稳压器

https://item.taobao.com/item.htm?spm=2013.1.20141003.8.qjNumw&scm=1007.10011.21135.1 00200300000004&id=521446134151&pvid=7f41c8f3-9702-4a03-b87d-dae7e5542acc

数量:15

- 3. resistor (Inclued in Arduino kit)
- 4. buzzer(Inclued in Arduino kit)
- 5. potentiometer(Inclued in Arduino kit)
- 6. LED(Inclued in Arduino kit)
- 7. switch(Inclued in Arduino kit)

Motor demo:

数字舵机Arduino扩展板

http://www.dfrobot.com.cn/goods-763.html

数量:1 机械手套装

https://item.taobao.com/item.htm?spm=a230r.1.14.54.LTg4ks&id=43947845708&ns=1&abbuck

et=2#detail [套餐五 (6数码舵机+全套支架)]

数量:1

lab 02-04: N/A (coding project)

lab 05/工作营05:

8. lamp/台灯

https://item.taobao.com/item.htm?spm=a230r.1.14.18.k6O8x1&id=520930215095&ns=1&abbucket=2#detail

数量:3

9. relay/继电器

http://www.seeedstudio.com/depot/Grove-Relay-p-769.html?cPath=39 42

数量:15

lab 06: leapmotion/手势感应器

http://store-world.leapmotion.com/products/leap-motion-controller

数量:5(人手一个也是可以的) xbox kinect/xbox动作捕捉感应器

数量:3(这个我不确定是否必需,操作复杂,学生project不确定是否会用上,上课做demo可以用我自己的)