Column1	Microcontroller	Arduino Uno Rev3	Rasp Pi 3 ver B	Arduino 101	Arduino Leonardo
Criteria	**Importance (1-5)**	(1,0,-1)	(1,0,-1)	(1,0,-1)	(1,0,-1)
Cost < $30	2	1	1	-1	1
Battery Power	5	1	1	1	1
Avaliability	3	1	1	1	0
Security	1	0	0	0	0
Input/Output Pin: atleast 14	5	1	1	1	1
Language C/C++	5	1	-1	1	1
Built in A/D D/A converters	1	1	1	1	1
Built in Display	2	0	0	0	0
USB/Video/Keyboard Ports	2	1	1	1	1
	Total	23	13	19	20

Sensor Name	In / Out?	Number?	
Temp Sensor	Input	2	or more
Emergency Shutoff	Input	1	
Seat Pressure Sensor	Input	1	
Temperature Adjustment	Input	2	
Temperature Reading (visual)	Output	1	
Temperature Setting (visual)	Output	1	
Temperature Setting (to seat heater)	Output	1	
Temperature Setting (to Vent sys)	Output	1	Or more
Battery Life Sensor	Input	1	

Total
11

Name	Ardunio Uno R3	Arduino 101	Arduino Leonardo
Price	23.38	30	19.8
Microcontroller	ATmega328P	Intel Curie	ATmega32u4
Operating Voltage	5V	3.3V (5V tolerant I/O)	5V
Input Voltage (recommended)	7-12V	7-12V	7-12V
Input Voltage (limit)	6-20V	7-17V	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)	14 (of which 4 provide PWM output)	20
PWM Digital I/O Pins	6	4	7
Analog Input Pins	6	6	12
DC Current per I/O Pin	20 mA	20 mA	40 mA
DC Current for 3.3V Pin	50 mA		50 mA
Flash Memory	32 KB (ATmega328P) of which 0.5 KB used by bootloader	196 kB	32 KB (ATmega32u4) of which 4 KB used by bootloader
SRAM	2 KB (ATmega328P)	24 kB	2.5 KB (ATmega32u4)
EEPROM	1 KB (ATmega328P)		1 KB (ATmega32u4)
Clock Speed	16 MHz	32MHz	16 MHz
LED_BUILTIN	13	13	
Length	68.6 mm	68.6 mm	68.6 mm
Width	53.4 mm	53.4 mm	53.3 mm
Weight	25 g	34 gr.	20 g
Software?	Arduino IDE	Arduino IDE	Arduino IDE
Language	C/C++	C/C++	C/C++
Features		Bluetooth LE, 6-axis accelerometer/gyro	

Pros	Cons
Ease of use	Cost (paying for convienence of all parts pre assembled and pre programmed.)
Ready to use out of box	
Large database of example code/ shared projects	
Automatic Unit conversion	