Supplementary Information

# Real-Time Strap Pressure Sensor System for Powered Exoskeletons. *Sensors* 2015, *15*, 4550-4563

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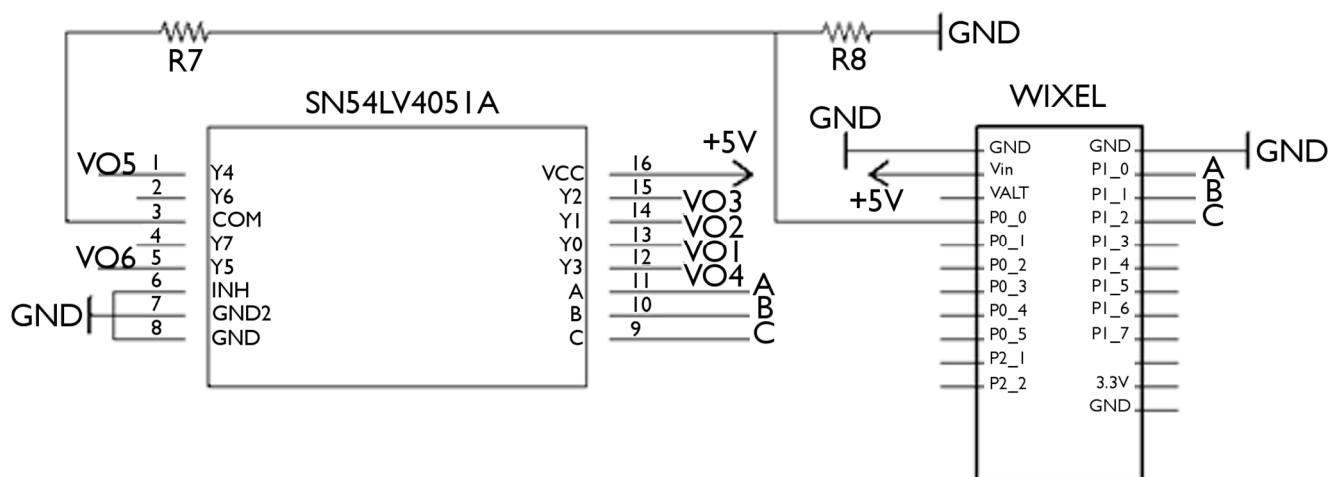
Figure S1. Multiplexor with sensor inputs VO1-VO6. Wixel module is included for wireless transmission of data.
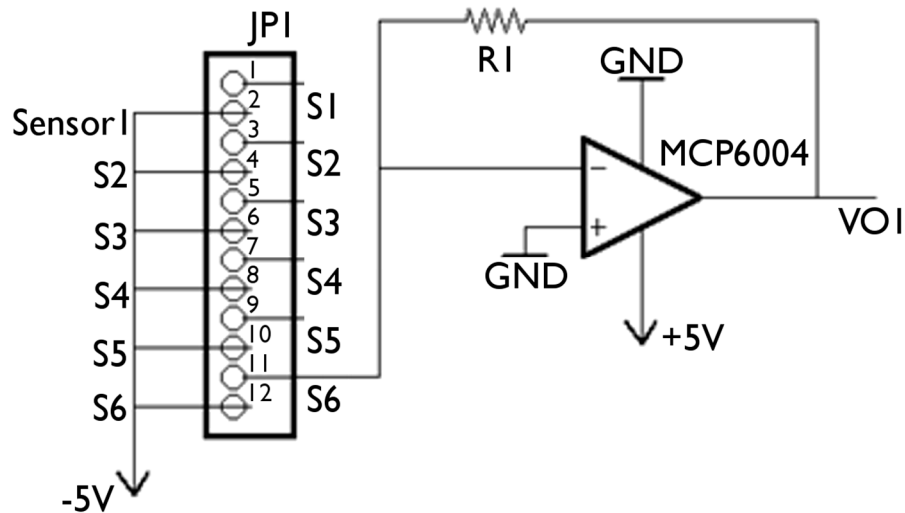
Figure S2. Electronic configuration used for each sensor.

Bending effect on pressure measurements.

68.37 mm Hg reference.

————————	r= 9.79 cm	73.05 mm Hg	106.85 %
————————	r= 7.99	78.04	114.14 %
————————	r= 6.03	79.42	116.16 %
————————	r= 3.64	85.29	124.76 %

Figure S3. Measurement variations with respect to sensor bending.

Table S1. Component details for the developed circuit shown in Figures 6 and 7.

Name on Schematic	Component
S1–S6	Tekscan's FlexiForce® A401-25 Force Sensors
SN54LV4051A	CMOS Analog Multiplexer
WIXEL	Polulu Wixel©
MCP6004	Op-amp
R1-R6	20k Resistor (1% tolerance)
R8	2.2k Resistor (1% tolerance)
R7	1.8k Resistor (5% tolerance)