

Assignment 1

RESEARCH A SENSOR

Alberto	Accelerometer	Kui	Ultrasonic motion detector
Alessandra Fe	Muscle movement sensor	Luca	Force sensitive resistor
Alessandra Fr	Air pressure sensor	Marco A	Tilt switch
Alessandro	Galvanic skin response sensor	Marco P	Mouse
Andrea	AutoveloX	Maria	Touch screen
Christian	Photodetector	Maria	Gabriella GPS
Claudio	Barcode reader	Marta	Ultrasonic motion detector
Daniela	Potentiometer	Martina	Heart rate sensor
Daniele B	Keyboard	Patricia	Electronic drug sniffer
Daniele C	Proximity sensor	Piera	Humidity sensor
Elisa	Directional microphone	Sara P	Video motion tracker
Erika	RFID reader	Sara S	Infrared distance sensor
Federica	Electronic compass	Silvia Ba	Video camera
Francesco	Semacode reader	Silvia Bo	Brainwave (EEG) sensor
Giuliana	Flex sensor	Valentina	Face recognition sensor
Giuseppe	Stretch sensor	Valeria D	Magnetic motion tracker
Iliara	Footswitch tape	Valeria M	Thermistor
		Valeria P	Metal detector

- 1 Research the sensor next to your name above.
- 2 On one or more A3 sheets, explain how it works and can be used. Use images as much as possible; minimise text
- 3 Write your full name (*nome e cognome*) on your display
- 4 When you arrive at the next lesson, immediately fix the display to the wall and be prepared to explain it to everyone
- 5 The class is too large to crit everybody's work. So when the displays begin to fill the wall, inspect them to learn from this research.

Use the Internet for your research, like Google, HowStuffWorks, Wikipedia. Make (www.makezine.com) is sometimes useful, as are US component suppliers, e.g:

www.acroname.com
www.analog.com
www.brainfinger.com (especially for brainwave sensors)
www.digikey.com
www.elwire.com (especially for touch screens)
www.highly.com (especially for motion detectors)
www.ibva.com (especially for biometric sensors)
www.imagesco.com
www.infusionsystems.com (especially for floor sensors)
www.jamesco.com
www.parallax.com
www.skyetec.com (especially for RFID tags)
www.symbol.com (especially for barcode readers)
www.tapeswitch.com (especially for footswitch tape)
www.tekscan.com