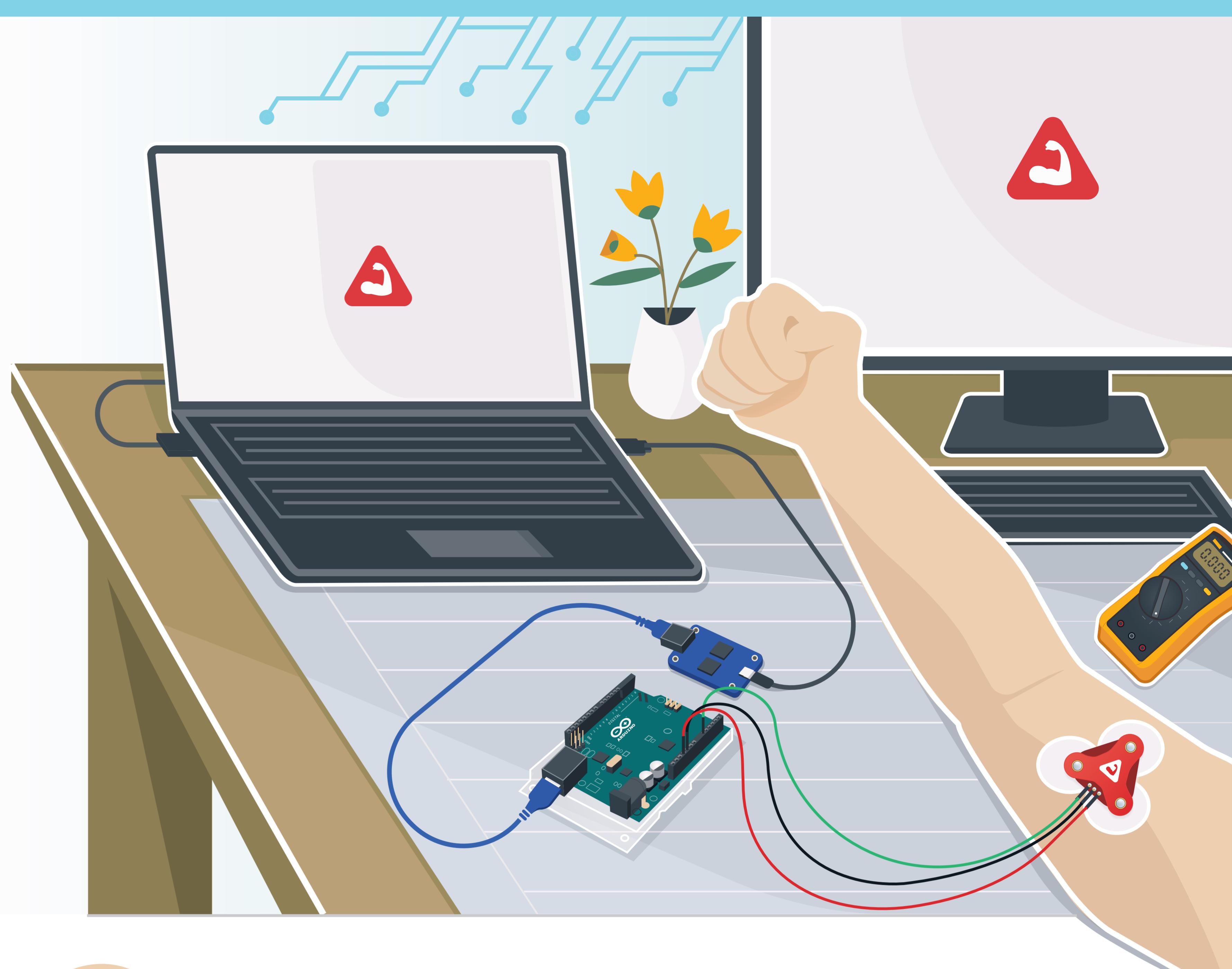
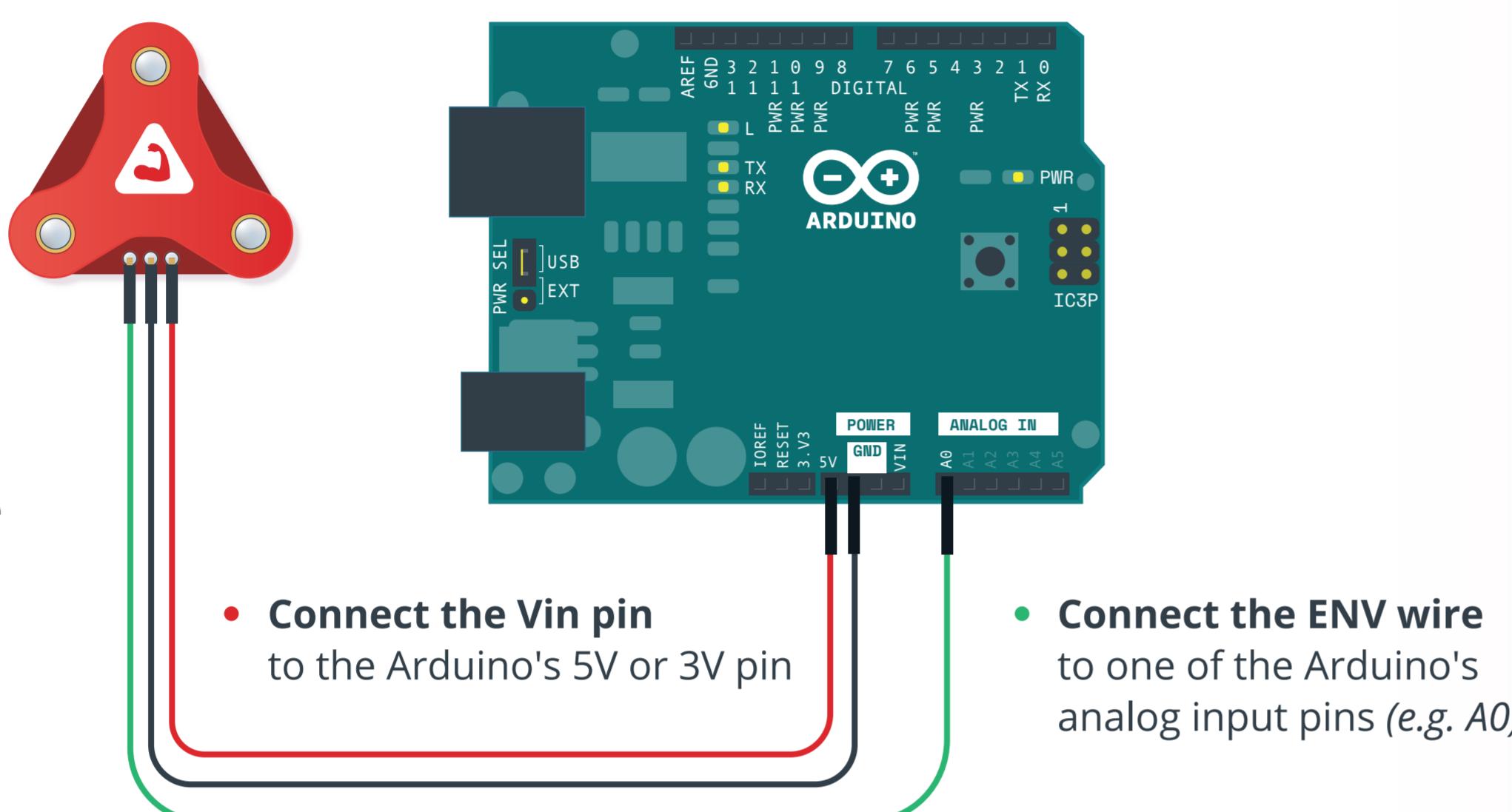
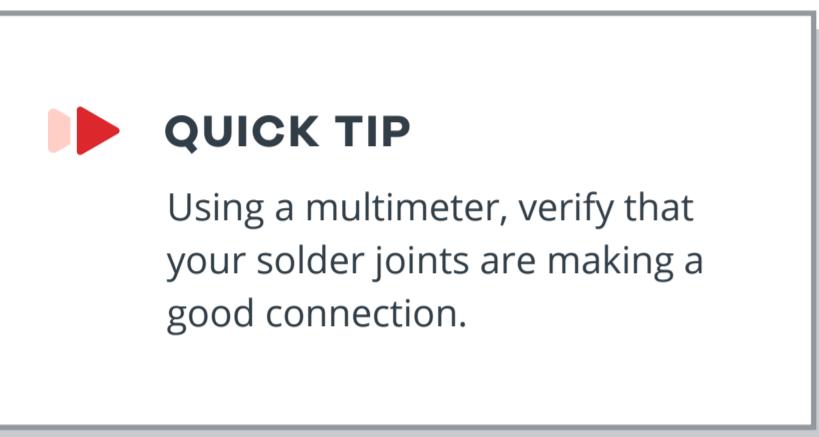


# Quick Start Guide

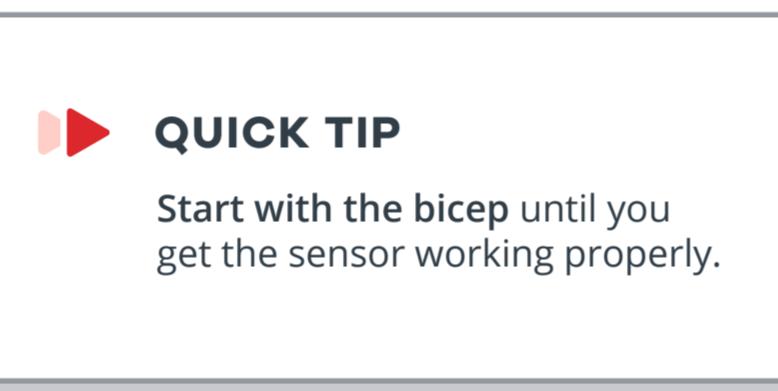
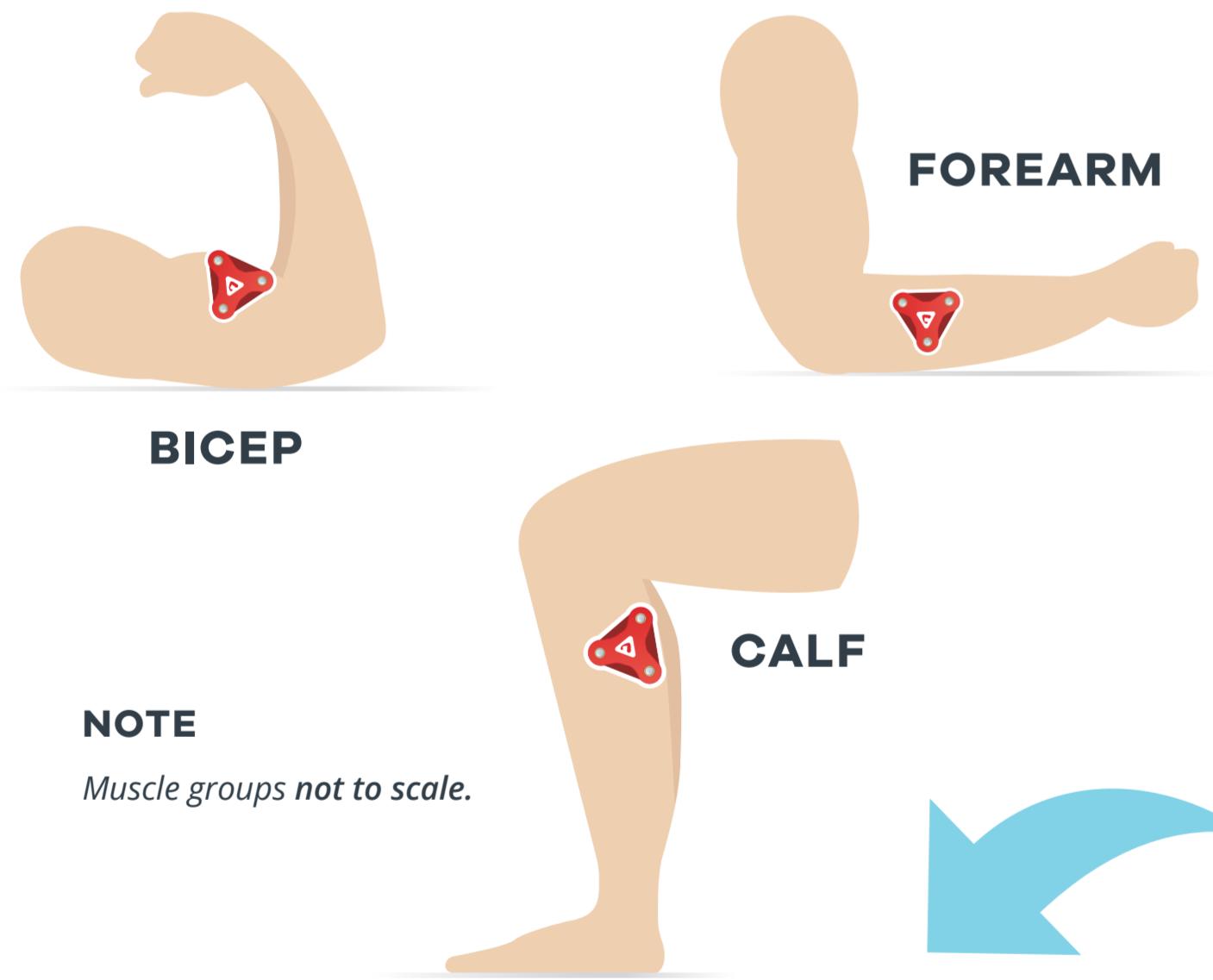
## 1 Connecting the sensor to an Arduino

 Solder wiring of your choice (or connectors such as header pins) to the Vin, GND, and ENV pins on the sensor.



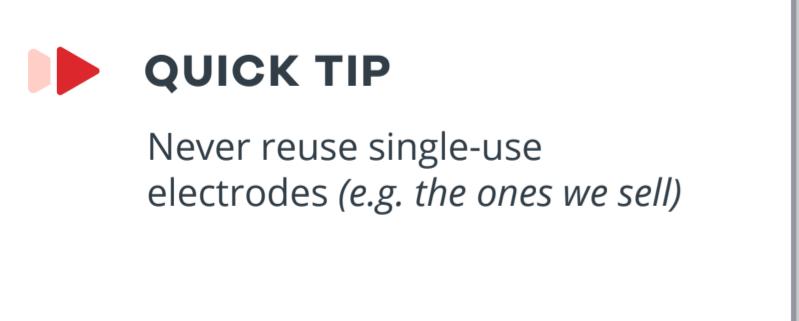
## 2 Placing the sensor

Determine which muscle group you want to target:



Thoroughly clean the intended area with rubbing alcohol to remove dirt and oil and allow to dry.

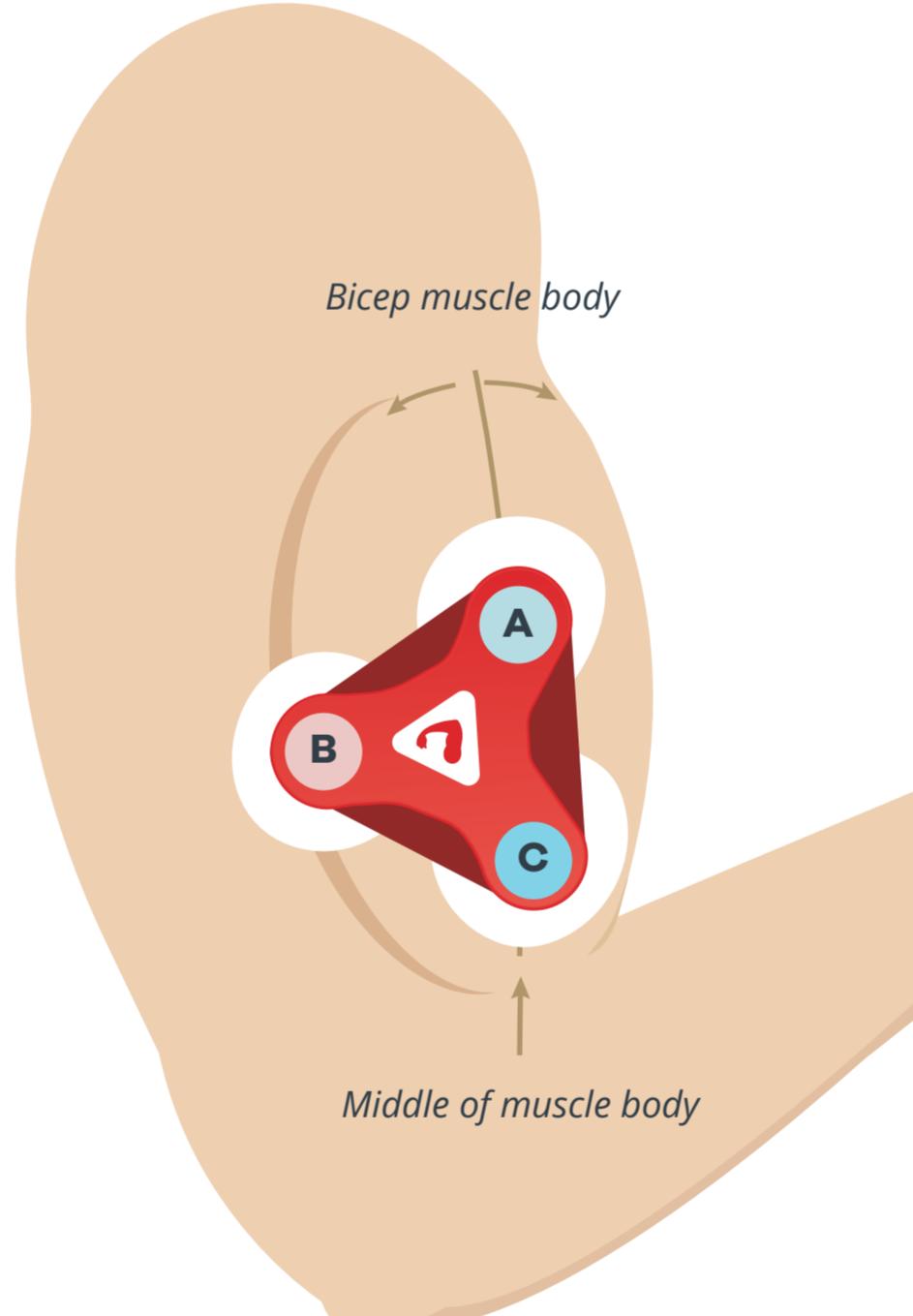
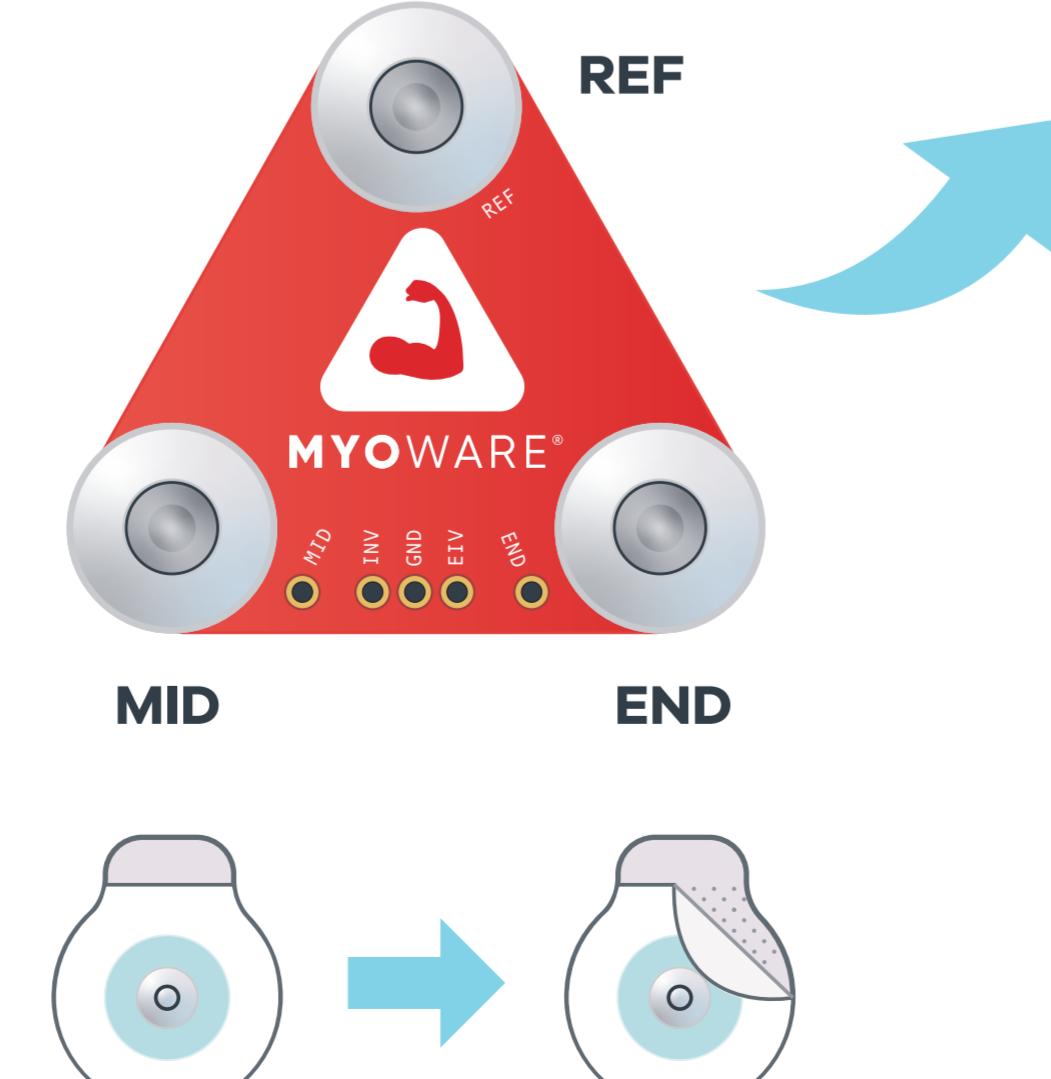
**NOTE**  
Soap can leave residue and should be avoided.  
Body hair can cause a poor connection. Use areas with sparse hair or remove hair from the area.



Snap electrodes to the sensor's three snap connectors marked MID, END, and REF.

**NOTE**  
We do not recommend snapping the MyoWare to the electrodes after they've been placed on the skin, doing so can cause bruising!

Peel off the backs of the electrodes to expose the adhesive and attach the MyoWare sensor to the muscle:

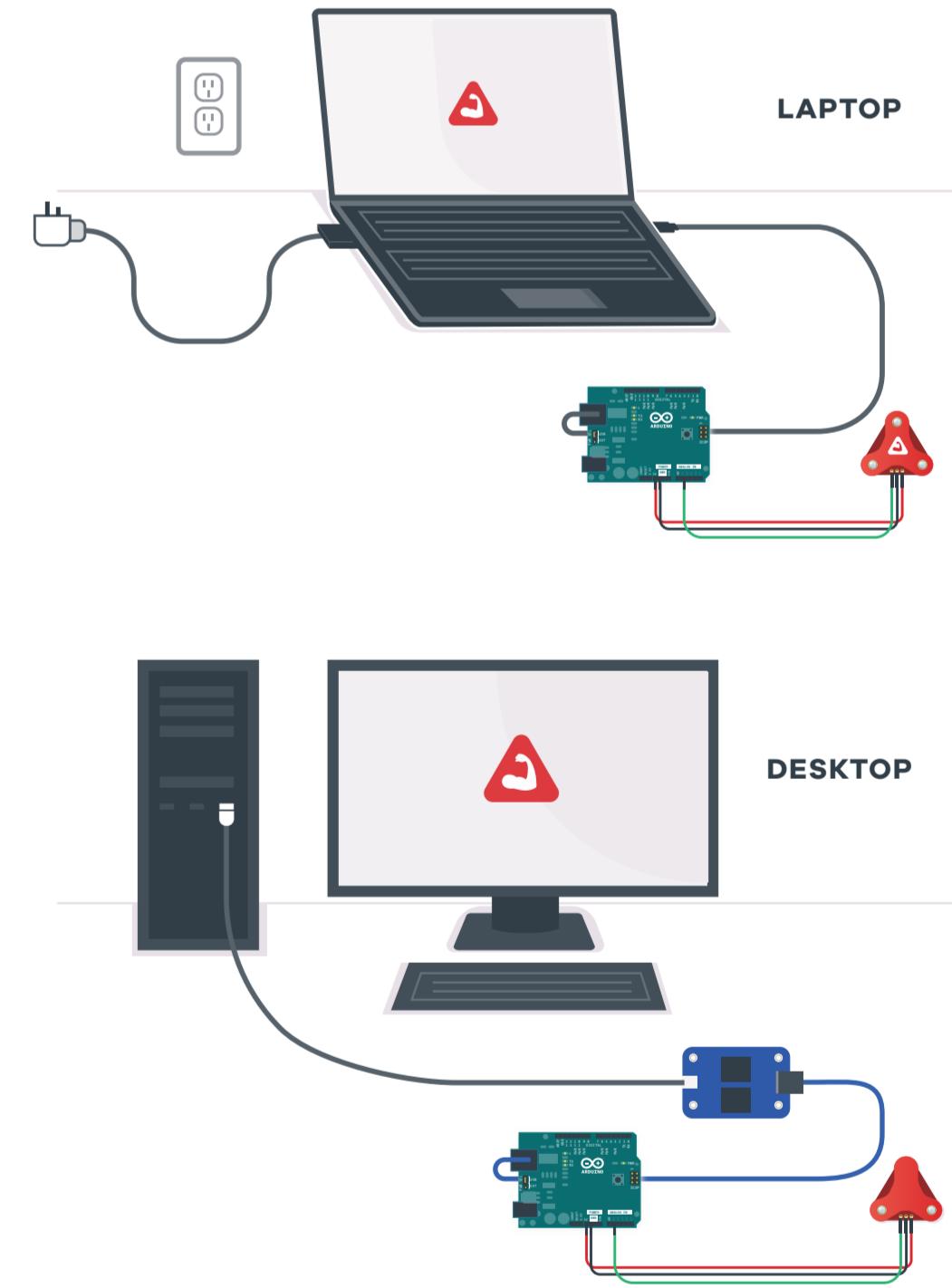


## 3 Connecting the sensor

Connect the Arduino to a computer using a USB cable. If using a laptop, the laptop's power cord must be disconnected from the wall unless a USB isolator is used.

 If using a desktop, a **USB isolator** is **ALWAYS** required.

 **ELECTRICAL SHOCK WARNING**  
A USB isolator ensures separation between the body and the power grid to **safeguard against any chance of electrical shock**. The USB isolator also reduces noise in the output signal caused by some countries' power grid.



### Troubleshooting Tips

- The Vin LED should remain on constantly as long as the sensor is powered.
- The ENV LED might immediately turn on when power is turned on but it should turn off after a second or two; afterwards, it should only turn on when the sensor detects muscle flexion.
- The ENV LED might sporadically turn on and off or simply remain on if the sensor (or external cables) is not connected to electrodes on the skin. This is normal behavior.
- The ENV LED lighting up seemingly at random while connected to electrodes on the skin usually indicates poor contact.
- Placement is extremely important. If this isn't clear, please reference the *Advanced Guide* for more information.
- between the electrodes and the skin. Try cleaning the area and applying new electrodes.
- The ENV LED not lighting up during flexion could be caused by various issues with the sensor setup. Double check the steps and tips of this guide to ensure proper setup.
- Most of the time the sensor gain does not need to be adjusted at all.
- Recommended that you do not adjust the sensor's gain until you get a consistent, quality signal from the sensor