

# Using the PicoScope & Launchpad

## CprE 288 - Lab 7

**Note: Use caution when connecting and disconnecting probes and wires. Ask a TA if you need assistance.**

### Directions

1. Plug the probe into the bottom left plug and the USB cable into the top USB port.



*Figure 1. PicoScope connections*

2. Ensure the Launchpad and cyBot are OFF for this portion:
  - a. Connect the ground alligator clip to the Launchpad's ground pin

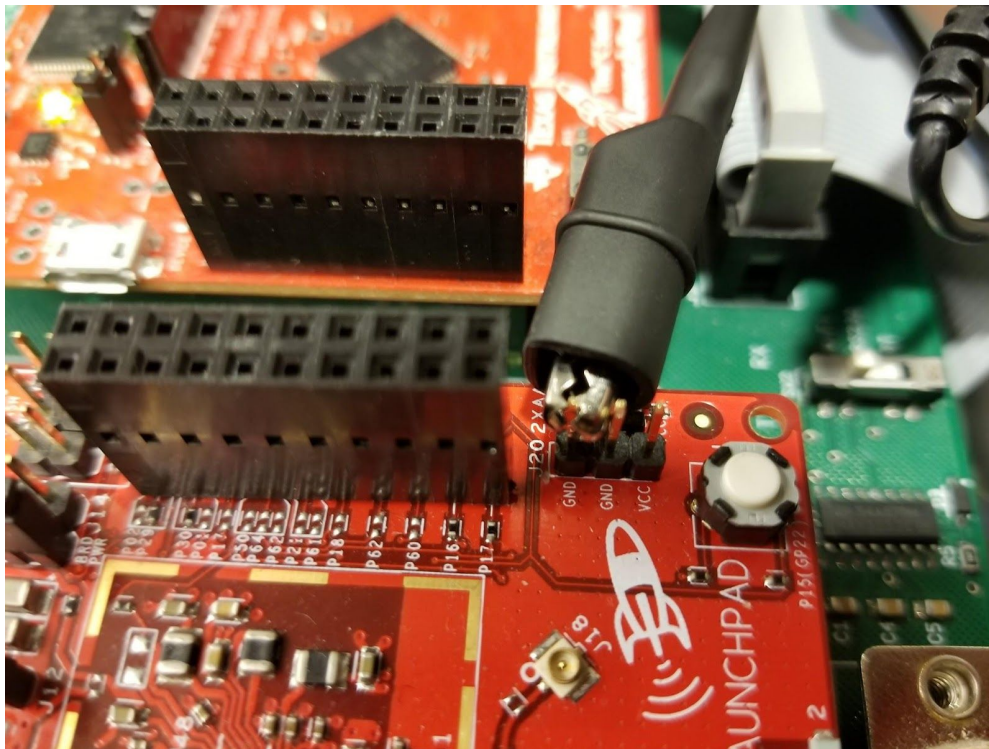


Figure 2. Grounding the probe to the Launchpad

- b. Disconnect the Ping sensor from Ping 1.
- c. Connect the probe to the bottom of the pin.
- d. Reconnect the Ping sensor: note the probe is connected to the white wire's pin.

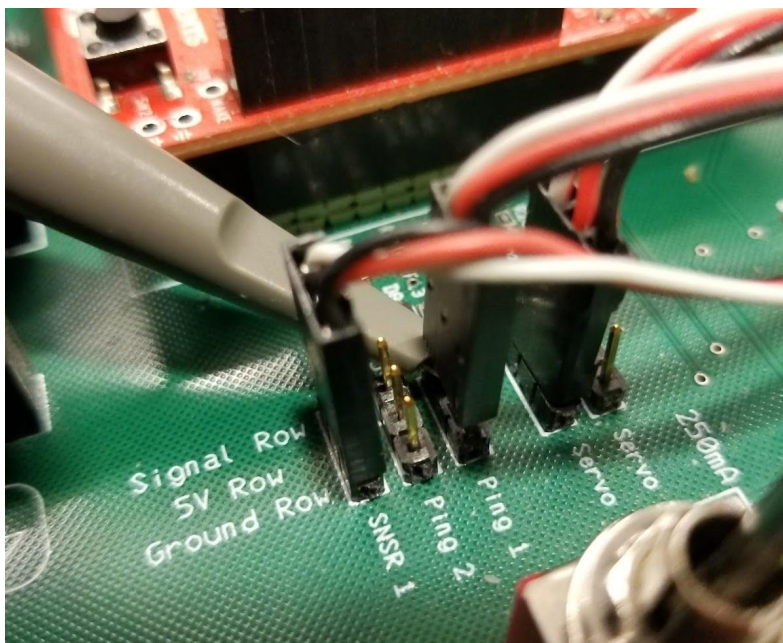
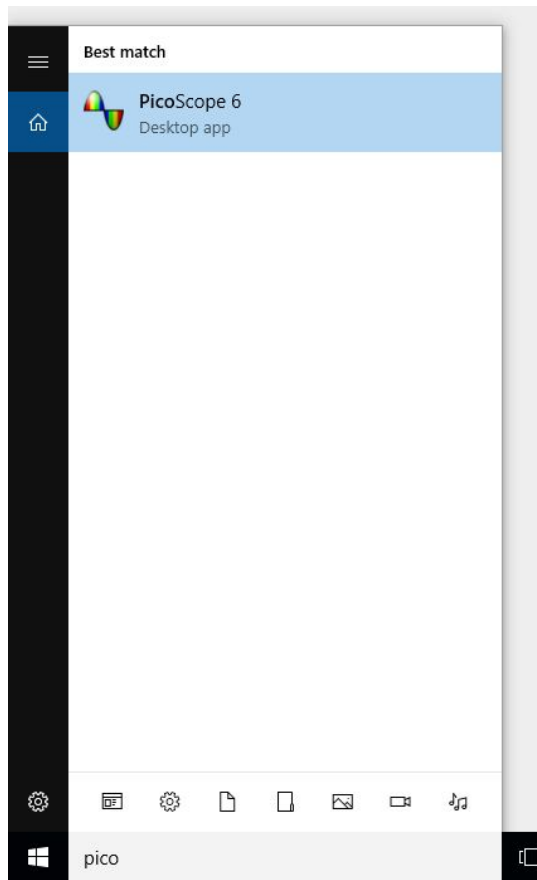


Figure 3. Connecting the probe to the sonar pin

3. Connect the USB to the computer.
4. Find the PicoScope program through the Start menu.



*Figure 4. Locating PicoScope program on lab computer*

5. Change these settings:
  - a. Trigger = Repeat
  - b. Grid = 5 ms/div
  - c. Amplitude = 1 V

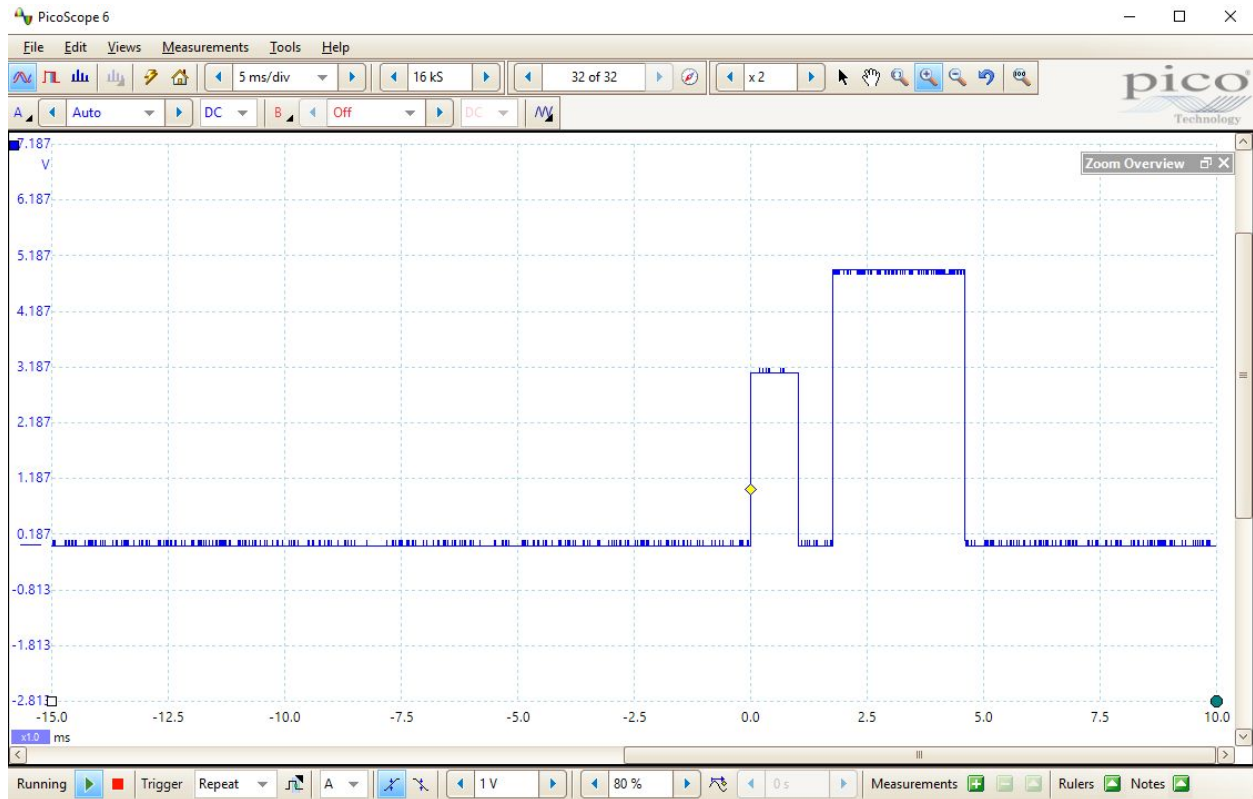


Figure 5. PicoScope view of Ping program

6. Turn on the Launchpad.
7. The view should look similar to figure x.
8. Turn off the Launchpad before disconnecting the probe.
9. Put the PicoScope away and return to the shelf when you are complete.