# Lab Title

Objectives

MATERIALS

* NI LabVIEW 8.5.1
* NI ELVIS II Benchtop Workstation
* NI ELVIS II Series Prototyping Board
* AC-DC power supply
* NI ELVISmx 4.0 or later CD
* High-speed USB 2.0 cable
* Computer
* Wires to build circuits
* Vernier Analog Proto Board Connector (Order Code BTA-ELV)
* Vernier Surface Temperature Sensor (Order Code STS-BTA)

Theory

Building the experiment on elvis II

The Vernier sensor attaches to NI ELVIS II through the Analog Proto Board Connector. The following steps and Figure 1 below illustrate how to connect the Analog Proto Board Connector to the NI ELVIS II Series Prototyping Board.

**Figure 1: Connecting the Analog Proto Board Connector to NI ELVIS II**

Connect the following pins to wire the connector:

1. AI0+ to SIG1 of the Analog Proto Board Connector
2. +5V DC power supply to 5V of the Analog Proto Board Connector
3. GROUND power supply to GND of the Analog Proto Board Connector
4. AIGND to GND of the Analog Proto Board Connector

understanding the Vi

Running the Experiment

Data Collection

Data Analysis