

Introduction to the Mechatronic Engineering Laboratory Equipment

Learning Objectives: By the end of the lab, you should be able to:

- Properly use a triple-output power supply, digital multimeter, function generator, and oscilloscope.
- Measure voltage and current using the digital multimeter and oscilloscope.
- Use a solderless breadboard to build an electronic circuit.
- Use Intuilink to capture a waveform from the oscilloscope

Pre-Lab Preparation: Watch the following YouTube videos:

[Breadboard](#)

[Digital Multimeter](#)

[Function Generator](#)

[Oscilloscope](#)

Components:

- Resistors: one each of: 100 Ω , 2 k Ω , 5.1 k Ω , 10 k Ω , 100 k Ω , 1 M Ω , and two 1 k Ω resistors.

Introduction: Each workstation in the lab consists of the equipment shown in Figure 1.

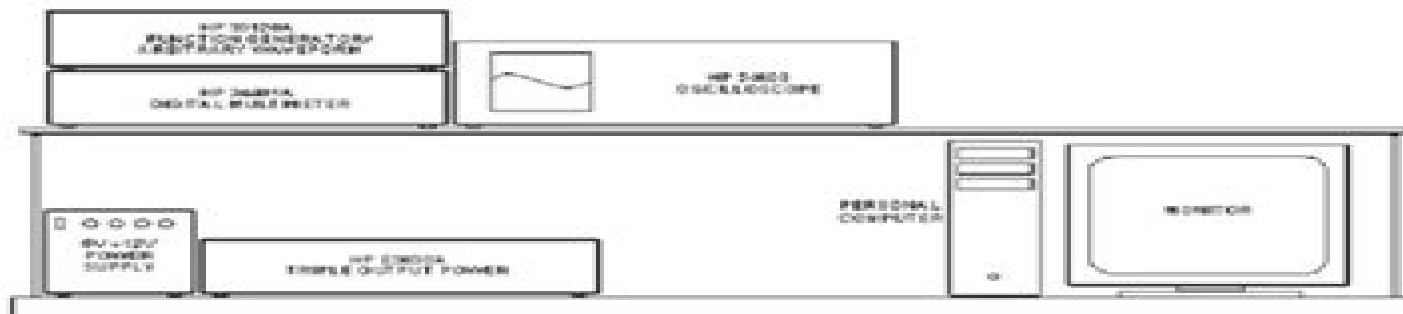


Figure 1. Laboratory equipment in the Mechatronic Engineering Laboratory. The multimeter, arbitrary waveform generator and oscilloscope are connected to the computer via GP-IB.

The purpose of each of these devices, briefly, is:

- The **HP E3630A TRIPLE OUTPUT POWER SUPPLY** will be used to supply the DC power needed to operate your circuits.
- The **HP 34401A DIGITAL MULTIMETER** (often referred to as the DMM) will be used to measure resistance, voltage, and current.
- The **HP 33120A FUNCTION GENERATOR** will be used to provide various types of time-varying signals to your circuits.
- The **HP 54603 OSCILLOSCOPE** (often referred to as the 'scope) will be used mainly to display how circuit voltages vary with time.
- The **PERSONAL COMPUTER** will be used in conjunction with Agilent IntuiLink[®] software to communicate with the 'scope (but can also be used to communicate with the function generator and DMM) and will also be used to program the microcontrollers that you will learn about in later labs.

You will get to use each of these devices in this laboratory session. This guideline contains the basic operating instructions for the test and measurement equipment described above. It also includes a number of exercises identified by a framed border on the page. The exercises will help you learn

Mechatronic Engineering Lab Manual

L Cohen



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