General Equipment and Supplies List

Where possible, the exercises in this book were developed so they could apply in any Lab setting, with any equipment (even virtual PC-based instrumentation). However, for reference, all equipment used in the Lab at CSU are summarized below.

Recommended Equipment and Software:

- NI Elvis II+
- HP 54602A Oscilloscope
- Keithley 2230G-30-1 Triple Channel DC Power Supply
- Philips PM5193 Programmable Synthesizer/Function Generator
- HP 34401A Digital Multimeter
- Mecanique's Microcode Studio integrated development environment software
- MicroEngineering Labs' PicBasic Pro compiler
- MicroEngineering Labs' U2 USB Programmer

Recommended Supplies:

For each work station (in student kit or in station bins):

- Elvis Protoboard (1)
- electronic components (the required components are listed at the beginning of each laboratory exercise)
- alligator clips (4)
- BNC-to-banana connectors (2)
- breadboard (1)
- wire strippers (1)
- chip puller (1)

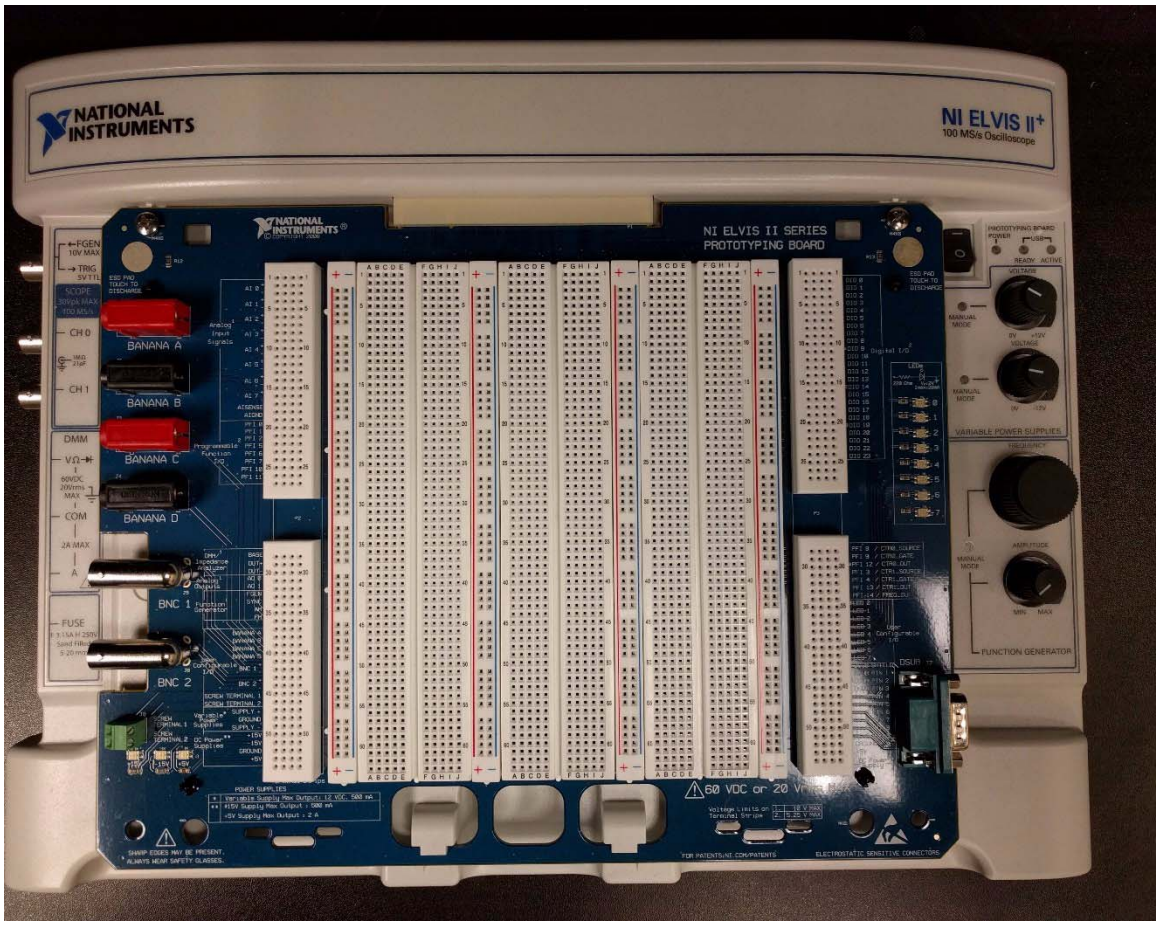
Available for the entire laboratory (hanging on the wall):

- banana cables assorted colors 24 inch (32)
- banana cables black and red 24 inch (16 each)
- banana cables assorted colors 48 inch (16)
- DMM probes black and red (16 each)
- oscilloscope probes (16)
- assorted BNC-to-BNC cables

Other:

- assorted colors 24 gage solid core wire (100 feet each)
- soldering stations (4)
- solder and flux
- extra soldering tips
- solder suckers/de-solderers

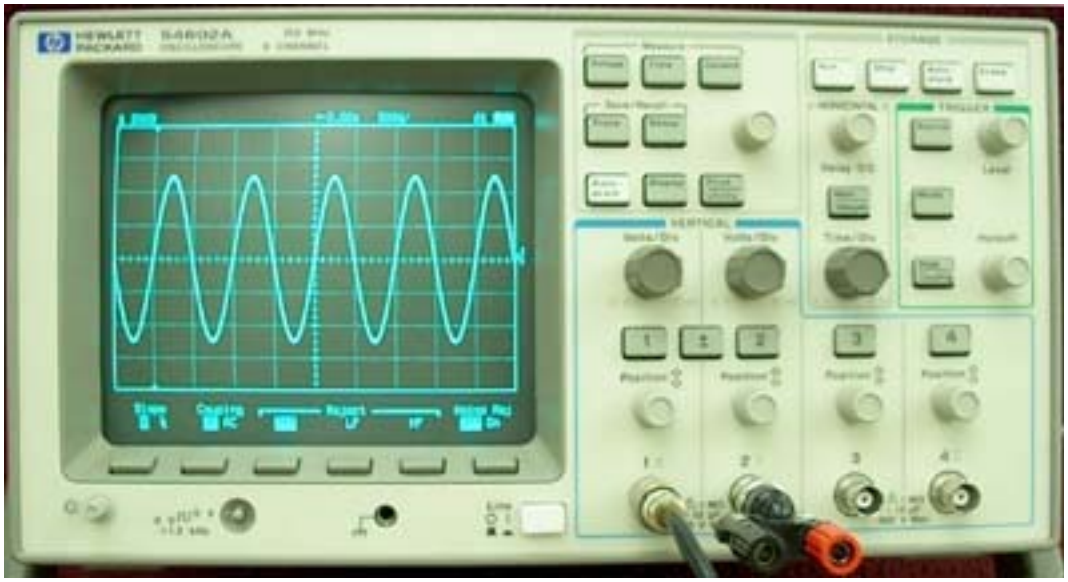
Instrumentation Used in the Lab:



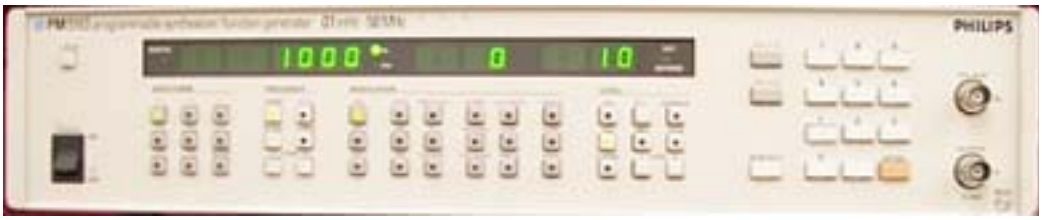
NI Elvis II+ With Protoboard

Keithly 2230G-30-1 Triple Channel DC Power Supply

HP 34401A Digital Multimeter



HP 54602A Oscilloscope



Philips PM5193 Programmable Synthesizer/Function Generator