**Hardware status:**
- Working on the implementation of a two-channels test system
  a) Xilinx X2S150 FPGA Test Card (Digital)
  b) AD9765 Test Card (Digital to Analog Conversion)
  c) AD8138 Card (Amplification/Filtering)

**Software and Firmware status:**
- Working on the interface for the Xilinx X2S150 FPGA Test Card (Digital)
  a) Implementing a user-friendly interface to control and change the waveform generated by the two-channel test system.

**TWG Documentation:**
http://www-ese.fnal.gov/D0Cal_TWG/
AD9765 Test Card

HP 16500 Logic Analyzer

Power Supply 5V (Analog)

Power Supply 3V (Digital)

Tektronix TDS 794D Digital Oscilloscope

Digital

Oscilloscope

1024 X 12bit Memory

125 MSPS D/A Converter

12-bit

AD9765

40MHz OSC

Xilinx X2S150 FPGA Test Card

JTAG

RS232

PC

10-bit counter

12-bit, clock

CHAN1

12-bit, clock

CHAN2

10-bit counter

10-bit counter

12-bit, clock

40MHz OSC

ADDR

CHAN1

CHAN2

1024 X 12bit Memory

Control

Xilinx X2S150 FPGA Test Card

10-bit counter

10-bit counter

12-bit, clock

40MHz OSC

JTAG

RS232

PC
AD9765 Test Card
Xilinx X2S150 FPGA Test Card
HP 16500 Logic Analyzer
5V (Analog)
3V (Digital)
1024 X 12bit Memory
1024 X 12bit Memory
12-bit counter
12-bit counter
40MHz OSC
AD9765 D/A Converter
AD8138 Amplifier/Filter
Tektronix TDS 794D Digital Oscilloscope
10-bit counter
40MHz OSC
Analog
Power Supply 5V
Power Supply 3V
CH42 CHAN1
CH41 CHAN2
CH43 CHAN3
CH44 CHAN4
CH42 CHAN1
CH41 CHAN2
CH43 CHAN3
CH44 CHAN4