

Project Abstract

Name: Digital Storage Oscilloscope

Team Members: Daniel Richman, Jorge Troncoso

Our project is a full featured digital storage oscilloscope. Using the ADC on the Nexys 4 development board, we will implement a data acquisition system for signals up to 500 kHz (the Nyquist limit for the ADC). The oscilloscope will offer a customizable triggering system and will display the signals on a computer monitor. We also aim to provide provide signal analytics such as cursors, measurements, and calculations such as a Fourier transform to show a frequency-domain representation of the input signal.