

<u>Question</u>	<u>Answer</u>
Full Name	Puttipong Mahasukhon
Affiliation	Idaho State University
E-mail	mahaputt@isu.edu
Phone Number	(402) 3197024
Title of Paper	Signals and Systems: Theory and Practice
Abstract	<p>Many topics in any of the engineering curricula can be taught effectively if the teaching accompanies some form of hands-on experiments. However, design and management of the hands-on projects which can be done with small and large size classes and limited human and technical resources become a major challenge for faculty. Here, the challenges and experience of incorporating hands-on experiments and visual aids in assisting teaching Electrical Engineering courses such as Signals and Systems are discussed. The main proponents of this approach propose the idea of having low-cost equipment for student experiments. In support of this, we found that an inexpensive Diligent Electronics Explorer Board (EE Board) includes most of the test and measurement equipment required to design and test analog and digital circuits of many types. In this paper, we will discuss how the EE Board can be specifically used for the Signal and Systems course as well as the Communications Systems. We will also discuss students' responses and experiences in working with the EE Board. The authors hope this paper will provide assistance to other faculty in this area in implementing similar approaches for bringing hands-on experiments to some of these traditionally dry and theoretical courses.</p>