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EE/CompE, IT, 2008

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Using LabVIEW for Simplified Measurement and Increased Functionality

Undergraduate electronic laboratories are used to teach students the fundamentals of electronics. Some components of these laboratories are tedious as many similar measurements are needed to analyze a circuit. However, by utilizing recent technology, such as LabVIEW, these tasks can be automated so that more time is available to analyze the results, rather than spending a significant portion collecting data. LabVIEW is a software and hardware package that can run on a Windows XP computer, and can be programmed to perform data collection and processing, as well as more advanced capabilities. This project aims to make use of LabVIEW to develop the capability of automating some of these components. This project is expanding on prior work completed in this area, as well as further extending the data collection abilities of the prior work.



Poster Number:

Session: