**Redesign of Introductory Physics Labs Using Arduinos**

The Arduino microprocessor platform has made possible inexpensive prototyping and experimentation. The simplicity of programming the Arduino makes it a great tool for introducing students to computer programming, experimental design, sensor calibration, and data acquisition. We will explain the Arduino platform and show how it can be used in a variety of traditional introductory physics labs as well as some less typical introductory physics experiments.