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Test platform for automated scan of multiple sensors

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The development of large scale detectors requires high throughput testing capabilities. The ideal approach for large high energy physics collaborations is to spread the testing over different institutes. However, this requires standardized equipment that, ideally, should be operable by non-experts. We propose an affordable test platform that automatically recognizes and identifies the device to test, performs a pre-programmed test, and stores the results in a database. The present version of the platform can be equipped with a radioactive source or with a laser, depending on the test requirements. Two prototypes have been built, one at CERN and one at the University of Kansas, and they will be used for the characterization of the sensor modules for the CMS MIP Timing Detector.

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