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Data Monitoring and Hardware Control for App Android by Bluetooth Communication for Laboratory Teaching in Electrical Engineering Courses

The professional in the field of engineering, it is necessary that the knowledge gained in the classroom can be applied in practice. Based on this issue, this paper reports the study and development of a prototype that uses prototyping tools and creating an Android application capable of performing reading analog variables and hardware control via Bluetooth communication to be used in laboratory teaching. Which presents the prototype development methodology, which are detailed all stages of development of the proposed system, the components that constitute the programming tools used and the final results of the prototype already in operation. Finally, we report the tests to validate the prototype and the results noting are the features of the project and the feasibility of its application in academia.