

Laboratorio remoto de bajo coste para enseñanza on-line de programación de microcontroladores (2017)

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Lugar: Badajoz, España Año: 2017 (5 - 8 de Septiembre) Abstract: We present a low cost remote laboratory for on-line teaching of subjects related to fast prototype with microcontrollers than can be the base of other disciplines like robotic, domestic or internet of things (IoT). The remote laboratory is integrated in a Raspberry pi with a video camera connected, that executes a php web server. This interface let the user to program the microcontroller, to interact with it by using two switches, to observe its operation and to record a video when the optimal operation takes place. Besides, the remote laboratory is integrated in Moodle to let the users to login in the timetable previously booked by pupils of a particular subject. These remote laboratories have been used in teachings of several subjects of the University Master on Technological Innovation Management that since 2016/2017 academic course is given completely on-line in the Mérida University Center.