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Encourage student learning of hydraulic matters by the use of Arduino platform

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Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for several purposes to anyone interested in creating interactive objects or environments. The hydraulic matters teach at the Agricultural Engineering School at the Technical University of Madrid deal with practical issues regarding the measurement of variables such as pressure, discharge, temperature and soil water content. Most of the data loggers available in the market for these variables at expensive and not always affordable. On the other hand, current students are eager to manage new technological devices thus, their skills could be oriented not only to the application of an electronic platform as Arduino to build low cost data loggers for different purposes, but to encourage their learning in the hydraulic matters improving their self esteem