



## Medicine organizer

Ricardo Martins (1) and Ismael Belchior (2)

(1) Portugal (ricardo.martins@aejbv.pt), Agrupamento de Escolas José Belchior Viegas, São Brás de Alportel, (2) Portugal (ismael.belchior@ist.utl.pt) Universidade de Lisboa, Lisboa

In the last year of secondary school, students studying physics and chemistry are incentivized to do a project where they must put in practice their improvement of scientific knowledge and skills, like observation of phenomena and analysis of data with scientific knowledge.

In this project a group of students, tutored by the teacher, wanted to build an instrument that helps people to take their medical drugs at the right time. This instrument must have some compartments with an alarm and an LED light where the people can put their medical drugs. The instrument must be easily programmed using an android program that also registers if the medicine has been taken.

The students needed to simulate the hardware and software, draw the electronic system and build the final product. At the end of the school year, a public oral presentation was prepared by each group of students and presented to the school community. They are also encouraged to participate in national and international scientific shows and competitions.