

TECHNOLOGIES IN STEM EDUCATION

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Solving problems caused by the pandemic with robotics

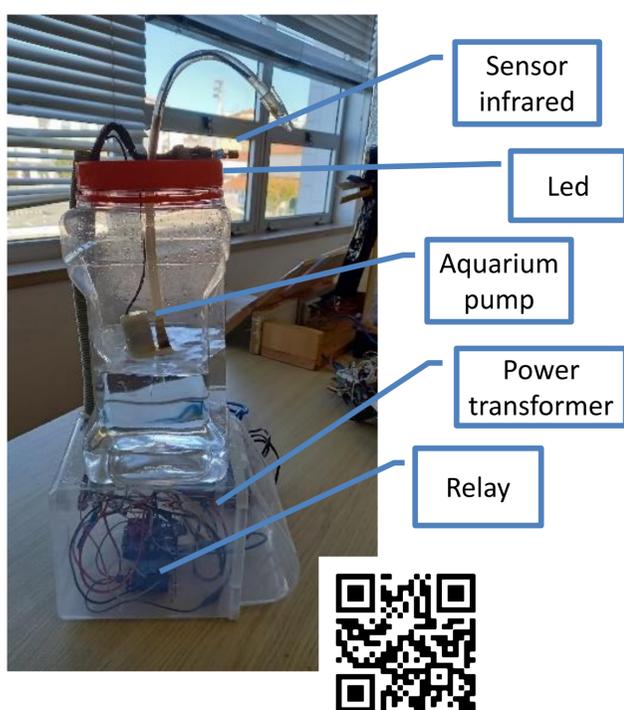
About

The teachers challenged the 10th year students of the Vocational Mechatronics Course to find solutions to the problems or situations identified by the students that were created by the pandemic (disinfection, protection, distancing), which could be applied at school. Inquiry-Based Learning teaching methodology was used.

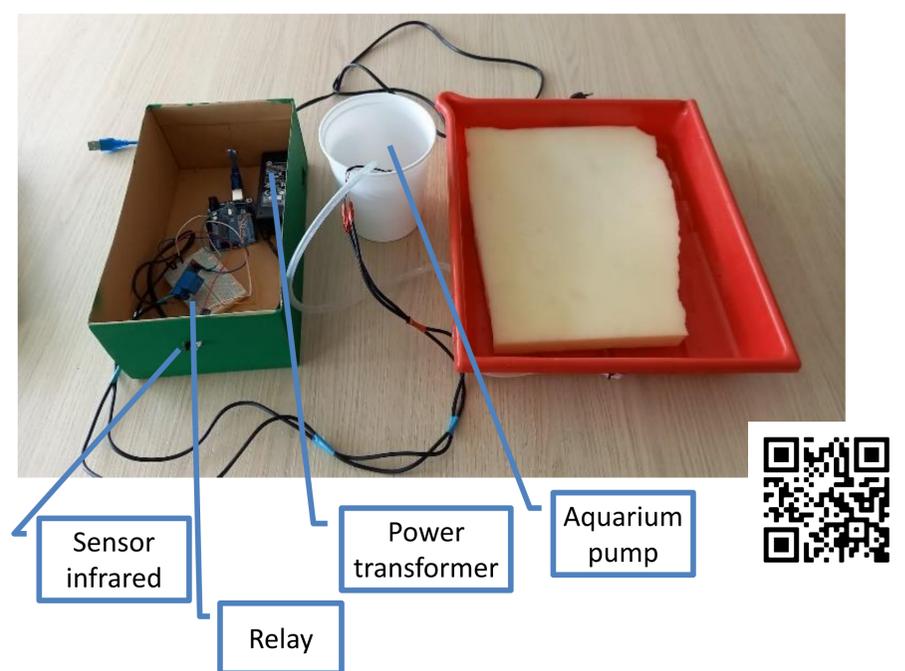
How does it work? How can others also too?

The designs are made up of simple electronic circuits, use a few sensors and are easy to program. Electronic components are low cost and programming software is free. All you need is basic programming knowledge. Students created support reports.

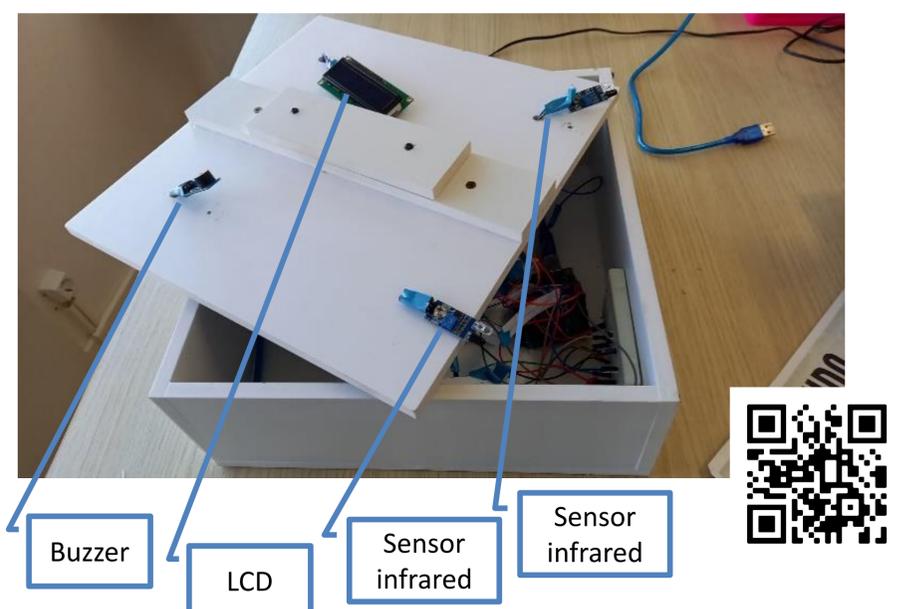
PROTOTYPE 1 - Automatic hand sanitizing gel dispenser



PROTOTYPE 2 - Automatic disinfectant for footwear



PROTOTYPE 3 - System to control the number of people in a room/space



The development of this type of projects allows students to be more responsible for their learning and therefore they are more motivated and involved. These projects are easy to replicate and accessible to everyone!