

Next generation stopwatch

Group B

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Background

Nowadays, when timing athletes during practice or competitions in different sports it is unfeasible for a coach to manually clock several different athletes at the same time. Manual timing is usually performed with a stopwatch, which does not support timing of several different athletes at once, doing more than one lap.

Further, a coach normally does not have access to the official timing during competitions, hence the coach has to manually time his competitors. During competitions there's often additionally information on the Internet about the athletes' previous results, lap times etc., as well as official lap/split/finish times recorded during the actual competition. This information would be valuable to a coach during a competition.

Goal

The goal is to develop a system that solves the two problems described above, i.e. the lack of support to manually clock multiple athletes at once as well as lack of information valuable to the coach during competition.

Functionality

The system must support the following functionalities:

- Should have an accuracy of 1/100 of a second.
- Tracking of several lap, split and finish times as well as frequencies, i.e. strokes/second for a swimmer, simultaneously.
- Presentation of relevant information about each athlete, i.e. name, age, previous lap/split/finish times etc..
- Correct manual times with official times, when possible.
- Used constantly during many hours without maintenance.
- One-handed controlling.
- Timing functions should not require visual feedback.
- Adjustment of manual recorded times according to user reaction time.
- Exportation of information to other systems.

Roles

We will develop and sell the system and consult your group to specify all necessary requirements for this system. You will produce the requirements specification for the system.

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