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Diploma/ Masters Thesis

Development of a mobile data logger with user interface

Project description

A mobile data logger needs to be developed for a new product in the area of sports medicine. This needs to both save recorded data, as well as display this data to the user. The data logger will need to provide wireless reception for several sensors. The user should be able to control all possible functions of the device, including starting and stopping, using only one button. The data can then be transferred via USB to a PC, where it can also be displayed.

Content of the project

The project is split into two parts: firstly the circuits must be developed (hardware); secondly the data logger needs to be programmed (software). It is important for both parts of the project, that they use the smallest currents possible. The graphical user interface (Display) should be user-friendly, with particular consideration to ease of use for older people. This will need to be evaluated with a small study.

Candidate Requirements

- Student of electrical and information engineering or IT
- Proficiency in programming (preferably Microcontrollers)
- Proficiency in circuit design and layout

What we offer

- Collaboration on an innovative new product
- interdisciplinary approaches
- a pleasant and relaxed working environment
- a young and innovative team

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