

Diploma / Masters Thesis

Further development of a graphical user interface for displaying medical data in the clinic

Research area

Medical sensors generally transmit very complex signals, which require mathematical and signal technical processing before they can begin to provide useful information. This project deals with signals from which heartbeat frequency and oxygen saturation are to be extracted. This information should then be saved and displayed for the user in the most intuitive way possible. We already have a C/C++ program addressing the fundamental processing problems that can function as a basis from which to develop this specific signal. It requires MS-DOS as an operating system.

Thesis Topic

The aim of this thesis is to further develop an already existing program. A graphical user interface should be reconceptualized. The multitasking presents special challenges for the candidate.

Candidate requirements

The candidate should have good knowledge of C/C++, in particular GNU Framework Qt. Candidate should have an interest in medical engineering and the creation of graphical user interfaces usable in everyday clinical work.

We offer

- Professional instruction and supervision in a relaxed working environment
- an interesting interdisciplinary area of work

Contact

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