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Diploma / Masters Thesis

Hardware development for measuring oxygen saturation under mobile conditions

Research area

The measurement of body temperature in the outer auditory canal is a widespread practice. This technology also has the potential to be extended to the measurement of oxygen saturation from this area, even when the person is mobile! This thesis project involves the development of a tiny, low current, mixed analog/digital circuit for mobile pulse oximetry. The development of the ear sensor is being completed at this moment.

Tasks

- Embedded System Design
- Mixed analog and digital circuit design
- Assembly and layout of circuit board
- Testing the assembly
- Data evaluation

Candidate requirements

- Proficiency in electronics
- Proficiency in C, Microcontroller Programming
- Interest in medical electronics, interdisciplinary approaches and ability to work independently

Salary/Hours

- Salary according to qualifications
- 39 Hours per week

Contact

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